Harvest is the fastest growing full-service distributor, installer and integrator of renewable and energy saving products serving the agricultural industry in the Midwest.

We are proud to represent American companies and American made products.
THANK YOU FOR YOUR INTEREST IN HARVEST ENERGY SOLUTIONS

Over the past several years we have had conversations with thousands of farmers and ranchers that expressed concern and frustration over the skyrocketing cost of energy and the volatile supply in real times of need. As a result, many of us are taking steps toward energy conservation and are considering alternative and renewable options with the ultimate goal of energy independence and sustainability right on our own farms.

What if you could cut your electric bill in half? Or come up with a practical way to produce your own electricity when and where you need it? What if you could lock in the cost of electricity at a dramatically reduced rate providing a real hedge against inflation for decades to come?

At Harvest Energy Solutions, we decided to take on this challenge. We offer the most energy efficient, American made products to the agricultural industry and continue to add more. Our products offer a great return on investment and are designed for rugged, agricultural applications.

This catalog is designed to give you an overview of our current product lines, introduce you to our strategic partners and to give you some insight on how we can improve your operation and cost efficiency. If you are not happy with the current cost of energy on your farm, we can help you:

- Reduce and conserve energy
- Replace and upgrade to Harvest Energy Efficient Products
- Become more energy independent with Harvest Renewable Energy Systems

Finding solutions in energy – what the agricultural industry needs and it is what we do.

Mark Olinyk
CEO – Harvest Energy Solutions

Chris Curry
President - Harvest Energy Solutions
Harvest Energy Solutions provides cost effective, renewable energy solutions to agricultural, commercial and rural residential customers throughout the Midwest. From product selection and site assessment to on-site installation and follow-up maintenance, we partner with our customers throughout the entire process. Since 2006, our goal has been to assist farmers and ranchers in becoming more energy independent, sustainable and efficient.

Our expertise in sales, design and installation of solar and wind energy systems assures that even the most minute details are addressed; from energy audits to grants to local utility applications; we assist you in every phase of the process in choosing just the right solution to meet your needs. In addition, our installation crews are employees, not contractors, ensuring a quality installation.

The Harvest team has a history of over 6MW (megawatts) of designed & installed solar PV (photovoltaic) systems. Our staff includes NABCEP (North American Board of Certified Energy Practitioners) certified Installers and PV Technical Sales Professionals. NABCEP is the gold standard for PV installation certification. We also have a full-time licensed electrician on staff to ensure that all work meets or exceeds National Electric Code standards and complies with all federal, state and local building codes, requirements and regulations.

Our corporate office is located in Jackson, Michigan and many of the products that we sell are manufactured at the Jackson facility that we have owned and operated for over 15 years. In addition to sales and administrative offices, we have in-house design and engineering, metal stamping, welding, assembly and powder coating capabilities. We have an additional office and warehouse in Almo, Kentucky and territory managers and representatives throughout the Midwest.

At Harvest Energy Solutions we also know how important financing partners are and we have relationships with some of the most trusted agricultural lending institutions in the Midwest. In addition to financing partners, we can help you with other options and incentives such as:

**GRANTS**
- Renewable Energy Grants
- USDA REAP Grant
- State Grants
- Local Utility Grants

**TAX CREDITS**
- Residential Renewable Energy Tax Credit
- Business Energy Investment Tax Credit (ITC)

**DEPRECIATION**
- Modified Accelerated Cost-Recovery System (MACRS) + Bonus Depreciation

**RENEWABLE ENERGY CREDITS (REC’s)**

**SPECIAL UTILITY PROGRAMS**

From first conversation through project completion - Harvest Energy Solutions is dedicated to providing quality products and service at every phase of the sale, design and installation of your energy system.
CHOOSING A SYSTEM THAT FITS YOUR NEEDS

Are you considering a solar PV energy system for your home, business, remote cabin, or farm? If so, it is important to understand the key differences between grid-tied and off-grid systems. Your energy, budget and environmental goals will help you determine which of these systems will work best for your situation. Harvest Energy Solutions provides the expertise to help you weigh your options and provide cost estimates for each type of system.

HARVEST GRID-TIED SOLAR

A “grid-tied” solar system is one that ties into the power grid, pulling electricity from the grid when needed, then pushing excess electricity back into the grid when the customer is not using the full capacity being generated by PV panels. As long as the grid stays up, it is a cost-effective solution, reducing or even eliminating the customer’s electric bills while generating clean energy.

Grid-tied Solar electric systems generate electricity for your home or business and route the excess power into the electric utility grid for compensation from the utility company. Energy derived from solar PV inherently varies – the amount of electrical energy produced varies with time, day of the week, season, and random factors such as the weather. Any electrical power grid must adapt energy production to energy consumption, both of which vary over time.

How it works. Direct Current (DC) electricity is passed to an inverter which is grid-tied. The inverter monitors the alternating current utility supply and generates electricity that is phase matched. The DC electrical system is attached to the utility via this mechanism. Because the local system is phase matched, electricity can be drawn from the utility in the situation of a generating shortfall power needs or exported on the grid.

Grid-tie applications often qualify for financial incentives provided by your local utility company. These incentives can cover over half of your array cost. Federal ITC incentives currently cover 30% of the system cost, in the form of a tax credit, after local incentives.

HARVEST OFF-GRID SOLAR

If utility power is unavailable or too expensive, an off-grid solar system package from Harvest Energy Solutions will provide you with the electrical freedom you need!

Harvest Energy offers off-grid solar solutions in a “building block” format. By matching our solar arrays and power storage systems to a customer’s expected needs, a simple solution exists for every location where utility power is not available. System sizes vary based on power consumption needs and the duration of these electrical needs.

There are new technology advances that will provide more affordable off-grid solutions as the demand increases and utility challenges continue to present themselves.

*Let one of our staff help you in selecting the system to best fit your needs. If you can dream it, we can do it.*
Harvest Carports & Racking

Harvest Carports

We’ve Got You Covered! Harvest Energy Solutions’ Carports and Canopies provide a shaded area to park your vehicle and at the same time produce power for your home or business without sacrificing valuable real estate. At Harvest, we have standard models available and designers on staff to develop that unique look for your latest green project.

- Engineered foundations, supports and mounting structures
- Manufactured by Harvest in Jackson, MI
- Powder coated in-house
- Custom designs available
- Tilt angle from 5 to 15 degrees standard

Harvest Racking

Harvest manufactures a number of racking systems for various applications. Below are a few of the options we currently offer that are all made in the USA:

Harvest Ground Mount

- Engineered foundations, supports and mounting structures
- Clamp-free design allowing for easy installations and proper thermal expansion
- Designed for 2-man assembly crew
- Extruded aluminum rails for mounting solar modules
- Galvanized steel I-beam support assemblies
- Industry-leading installation time

Harvest Roof Flush Mount

- Designed for pitched roofs
- Clamp-free design allowing for easy installations and proper thermal expansion
- Extruded aluminum rails for mounting solar modules
- Engineered mounting structures
- Adjustable rail accommodates for roof variation
- Attaches to standing seam roofs without penetration

Harvest Roof Ballast Mount

- Designed for flat roofs
- Engineered mounting structures
- Fits all major solar modules available today
- Non-penetrating
- Top-down assembly of PV modules

Additional Information & Capabilities

- In-house design, engineering, manufacturing, powder coating and assembly
- P.E. Stamps available in all 50 states
- Full layout and loading analysis for each project
- All racking designed for scalability
- Racking has a 10-year limited warranty
- Project training and support always available
HARVEST FANS

Whether it is preserving your investment in people, animals or food; creating a comfortable environment is critical to your business. No other climate solution delivers like a Harvest Fan.

Our high-velocity, low speed (HVLS) fans bring gentle, powerful and efficient airflow to the most challenging of spaces, indoors or out. Manufactured by MacroAir Technologies, Harvest Fans are proven performers, backed by the industry pioneers in the HVLS fan industry. MacroAir fans are made in the USA and were developed 50 years ago for the dairy industry to find a way to effectively and quietly cool overheated, under-producing cows.

Today, the AirVolution® fans are the next generation in HVLS fans. Backed by the most comprehensive 50,000 hour warranty in the industry, the AirVolution-D has a direct-drive motor that is 3× smaller yet 5× more powerful.

- DAIRY: Get more milk with cooler air.
- LIVESTOCK: Air quality improves production and longevity.
- EQUINE: Improve comfort and health with better quality air.
- WINERIES: Control climate for better vintages.
- GREENHOUSE: Encourage growth with fresher air.

Harvest Fans - efficiently, silently and intelligently helping to improve the health and comfort of people, livestock, and business operations, while dramatically reducing heating and cooling costs.

HARVEST LIGHTING

BRINGING THE SCIENCE OF LIGHT TO THE WORLD OF AGRICULTURE

Light - along with nutrients, water and air, is essential to sustain life. Light, however, is often overlooked as a key ingredient to agricultural food production. Harvest Energy Solutions has partnered with ONCE lighting to provide you with lighting products specifically and exclusively designed for the Agricultural market. ONCE lighting systems are species-specific and establish lighting as a proven ingredient to increase production.

AGRICULTURAL LIGHTING: Raising animals and plants indoors requires specialized lighting systems to get the optimum results in both production and animal welfare.

THE SCIENCE: The type of lighting in your Ag facility is just as important as the nutrition, ventilation, water and heat you provide. Animals respond to lighting in different ways depending on how each species senses that light.

PROVEN RESULTS: Learn about the successes we are seeing in the field as individual farmers and producers use our lighting for improved feed conversion, increased productivity, enhanced animal welfare and reduced energy costs.

BUILT FOR YOUR BARN: Designed with techniques and materials that will withstand the harsh barn environment for years to come. Stands up to dirt, dust, high-pressure wash-downs and corrosive vapors including ammonia.

Our goal is to demonstrate to you that the right Agricultural lighting system will make your animals happier, healthier and more productive!
**HARVEST CABINS**

Harvest Log Cabins are Amish hand-crafted, high-quality, solid log cabins that will fit your needs perfectly. Whether it’s for deer camp or a get-away with the grandkids making memories next to the pond on the farm, it’s the picture-perfect cabin. It’s the home-away-from-home cabin you’ve been looking for! Add an optional Harvest Off-Grid Solar package to complete your getaway.

Our cabins are custom-built to your specifications. Choose a size, front or side porch, and then pick from the list of options to create your dream hide-a-way. In just weeks, your Harvest Log Cabin will be hand-crafted by skilled Amish craftsman and delivered to your location. It’s as simple as that.

**HARVEST SHELTERS**

The Harvest Shelter is a secure, self-contained structure that provides peace-of-mind to protect your family and your valuables. It’s a storm shelter, a safe room and a safe to secure your valuables.

The Harvest Shelter can easily be installed in existing garages, patios or on a pre-approved concrete pad. It is designed to withstand EF5 tornado winds and is equipped with a ¼” wall thickness making the Harvest Shelter practically impenetrable.

**CYLINDRICAL SHELTERS**

The cylinder-shaped model is 4’ in diameter with a height of 6’8” in the center of the structure. The product comes with a unique dome shape for good looks and considerably more head room compared to competitor products.

**RECTANGULAR SHELTERS**

The Harvest rectangular-shaped shelter is designed for 5-8 occupants. This model comes in a family size and measures 6’L x 4’W x 6 ½”H with a minimum interior height of 6’5”. The product comes with triple point locking to protect your family and your valuables in all situations.

*Harvest Shelters are built for safety and durability!*

*Image of Harvest Log Cabins and Harvest Shelters*
Corporate Office:
2218 East High Street
Jackson, MI 49203
Toll-free: (877) 788-0220
phone: (517) 788-8800
fax: (517) 788-8849
info@harvestenergysolutions.com

National Sales
Dennis Paliaga
(517) 817-6581
dpaliaga@harvestenergysolutions.com

Michigan, Indiana, and Ohio:
Ken Zebarah
(734) 790-0673
kzebarah@harvestenergysolutions.com

Iowa:
Randy Skeie
(515) 523-0057
rskeie@harvestenergysolutions.com

Kentucky and Tennessee:
Kyle Johnson
(517) 990-4070
kjohnson@harvestenergysolutions.com

Minnesota and Wisconsin:
Jonathan Peters
(612) 642-1164
jpeters@harvestenergysolutions.com

Missouri and Illinois:
Joel Tatum
(517) 499-0885
jtatum@harvestenergysolutions.com

www.HarvestEnergySolutions.com

LIKE YOU, WE AT HARVEST LOOK AT THE LONG TERM BENEFITS OF CLEAN ENERGY. OUR TEAM IS LOOKING FORWARD TO HEARING FROM YOU SOON.

Why choose Harvest Energy Solutions?

From product selection and site assessment to on-site installation and follow-up, we partner with our customers throughout the entire sales process.

Since 2006, our goal has been to assist farmers and ranchers, businesses and homeowners in becoming more energy independent, efficient and sustainable.

At Harvest, we leverage more than 100 years of collective commercial equipment installation experience with an emphasis on renewable energy system designs and installations for the agricultural industry. Our premium line of products provide best-in-class performance and allows us the flexibility to offer customized renewable resources that best fit our customer’s specific needs. We partner with superior manufacturers of solar and wind products; energy efficient high-velocity, low-speed fans; agricultural lighting; Amish-made log cabins; and our own manufactured storm shelters.

The future looks bright for clean and renewable energy cost savings. Harvest continues to add quality, American-made renewable and energy efficient products to meet the needs of today’s growing agribusiness industry.

If you’d like to learn more about how Harvest Energy Solutions is making a difference in energy efficiency, give us a call, drop us an email or visit with us at the next Ag trade show. You will be pleasantly surprised how affordable a Harvest renewable energy system can be…and at the same time how proud your family and friends will feel by your decision.