

# SOLAR SOLAR SYSTEM<sup>®</sup>

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[www.solarcam.us](http://www.solarcam.us)  
574-224-8324

SUMMER



SPRING/FALL



WINTER



# ABOUT THE FOUNDER

Jim Straeter is the founder of six New Holland Agriculture dealerships and Ag Technologies, Inc. – where the solar energy business operates. His passion for renewable energies began long before diving into the solar energy market. The developments of a backyard solar water heater, a patented methane digester, and a corn stover harvester called Cornrower® only scratch the surface of what's been done with his passion towards using renewable energy. Recognition for his innovations include an "ASAE TOP 50" award in 2012 and a "Silver Award" at Agritechnica show in 2014 in Hanover, Germany.



Recognition of innovation continues with the 2021 Solar Project of The Year award from AP Systems.



Solar Panel Test Array located at Ag Technologies

*“In 2012, I installed my first set of solar panels, a 15.48 kW system, at the New Holland Rochester dealership. When I installed the 10 kW wind turbine at New Holland Rochester its performance was less than expected while the solar panels surprisingly exceeded expectations. We chose to use the highest quality products in the business and used some practical thinking in design to come up with the system we have now.”* That system continues to supply electricity as it did in 2012 fulfilling entirely what it used at New Holland Rochester.

*— Jim Straeter*



The innovation continues with the change to bifacial solar panels in 2022. Bifacial panels are the next generation solar panel and the backside glass shown here allows diffused light to enter the solar cell. This is especially helpful in the winter when solar production is at its lowest. Snow covered ground makes for an excellent light reflector and with bifacial panels we put that light to work boosting electrical production as compared to older solar panel technology.



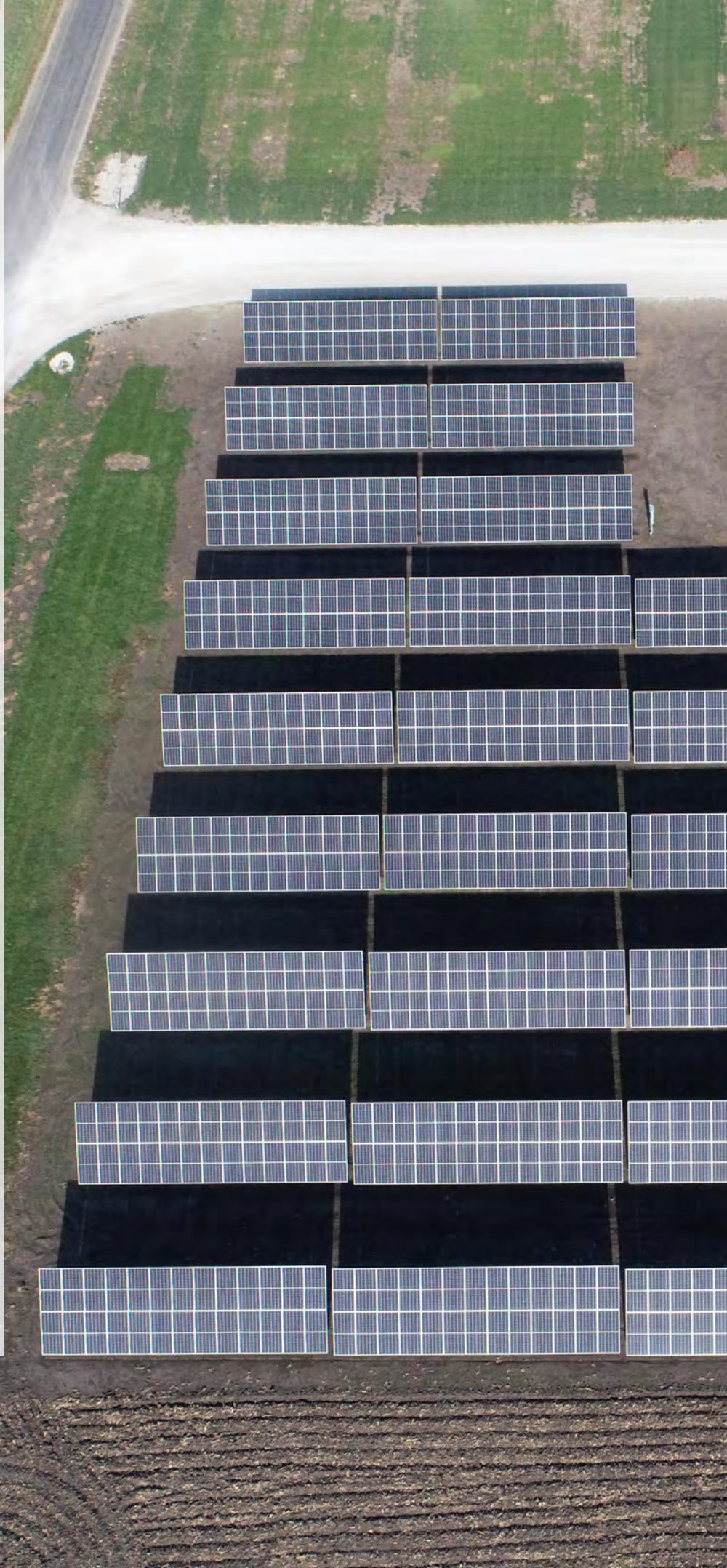
## OUR GOAL

At Ag Technologies we want to provide you, the customer, with the best solar energy experience and investment possible. We offer a unique ground mount system utilizing the industry's best products to make sure you receive more kilowatt hours of energy per dollar spent. We want you to feel confident that the thousands of dollars you spend are going to make the return on investment that we anticipate. Collectively, the systems we've installed now produce hundreds of megawatt hours per month and that number continues to rapidly grow.

*"We invested heavily into solar energy years ago at our own dealership to prove that our systems will do what we say they will – and they have."*

*Our systems provide critical daytime power to the grid and inflation-proof electricity costs for solar owners.*

*— Jim Straeter*





We've installed off grid systems such as this three-panel design currently powering a remote building and well pump for cattle.

# WHAT DOES FOR YOU

Our patented system with tilt capability has enhanced efficiency built into every component. Top quality panels, microinverters, and custom-made stands ensure our customers get peak efficiency all year long. The return on investment from our system is unmatched. When a customer buys our system, the 40-year life expectancy is backed by financially stable and experienced players in the industry. Start your solar journey with the best system available.



This photo shows snow covering a large portion of a fixed-tilt panel system. This snow came four days before this photo was taken and production was compromised all of that time.



This photo shows a **SOLARCAM** system located adjacent to the fixed-tilt system shown on page 6. Notice the snow has completely slid off of the panels and the bright sun is shining on the panel.

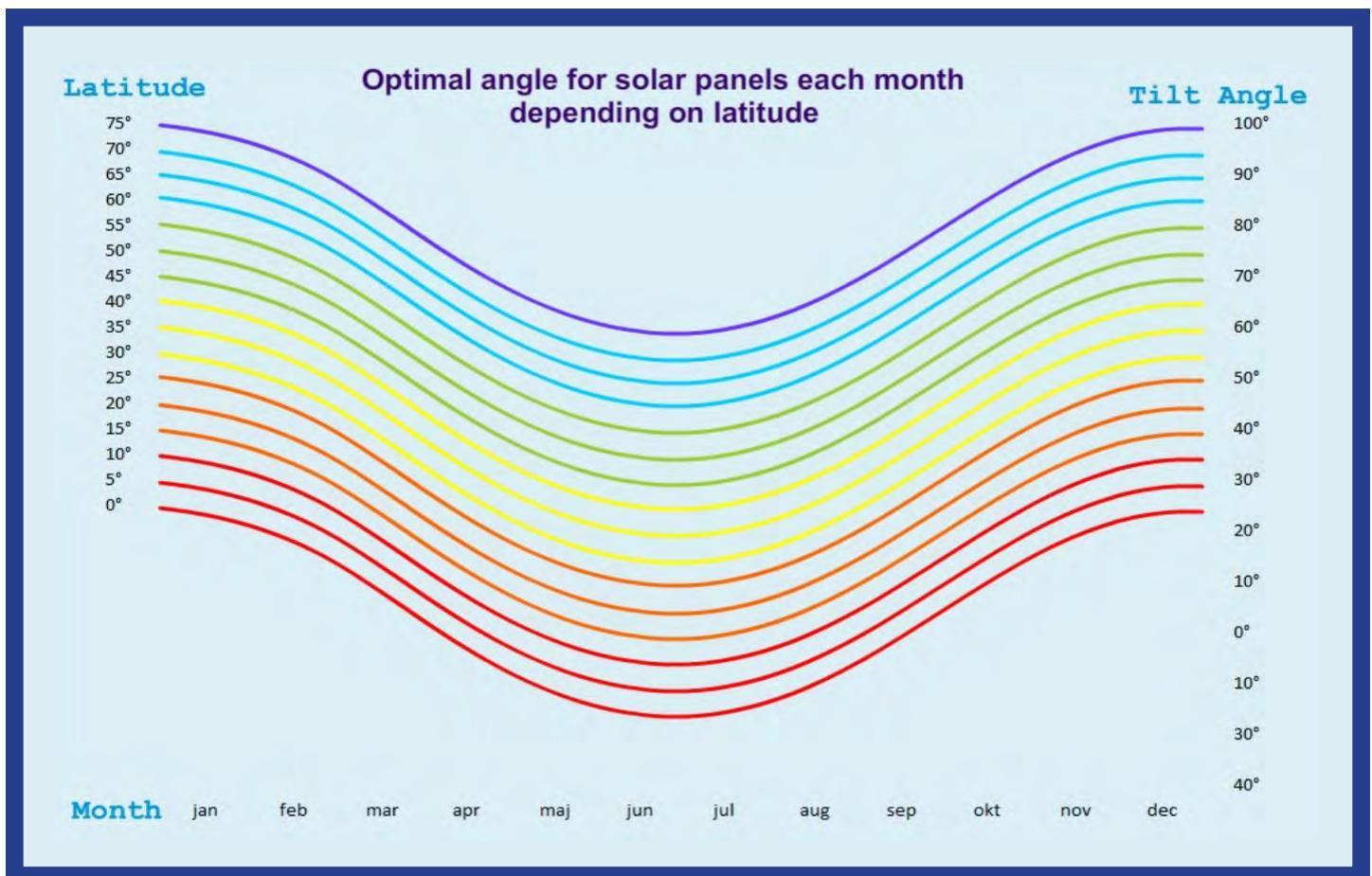


# DOES ANGLE COUNT?

Yes, it does! The more energy the panel can absorb, the higher the value of the system. A hammer hitting a nail squarely drives the nail into the wood as energy is transferred from the hammer to the nail. If the hammer glances off the nail, much of that energy is wasted and the nail movement is significantly reduced. Sunlight hitting a solar panel squarely transfers more energy to the panel if it is at a proper angle.

With **SOLARCAM**, you get the ability to adjust the solar angle very easily and make the most of your investment. The chart below shows clearly what the recommended angle for a solar panel is at any given location. Notice that the change is about 40 degrees over the year! With any fixed tilt system your energy loss adds up as the energy from the sun is wasted due to poor panel position. **SOLARCAM** offers an easy, low cost method to keep your investment working for you.

We did a full year test in Rochester of **SOLARCAM** vs. fixed tilt in 2021 to confirm the tilt adjustment is valuable. The retail electric value difference was \$135.28/array!

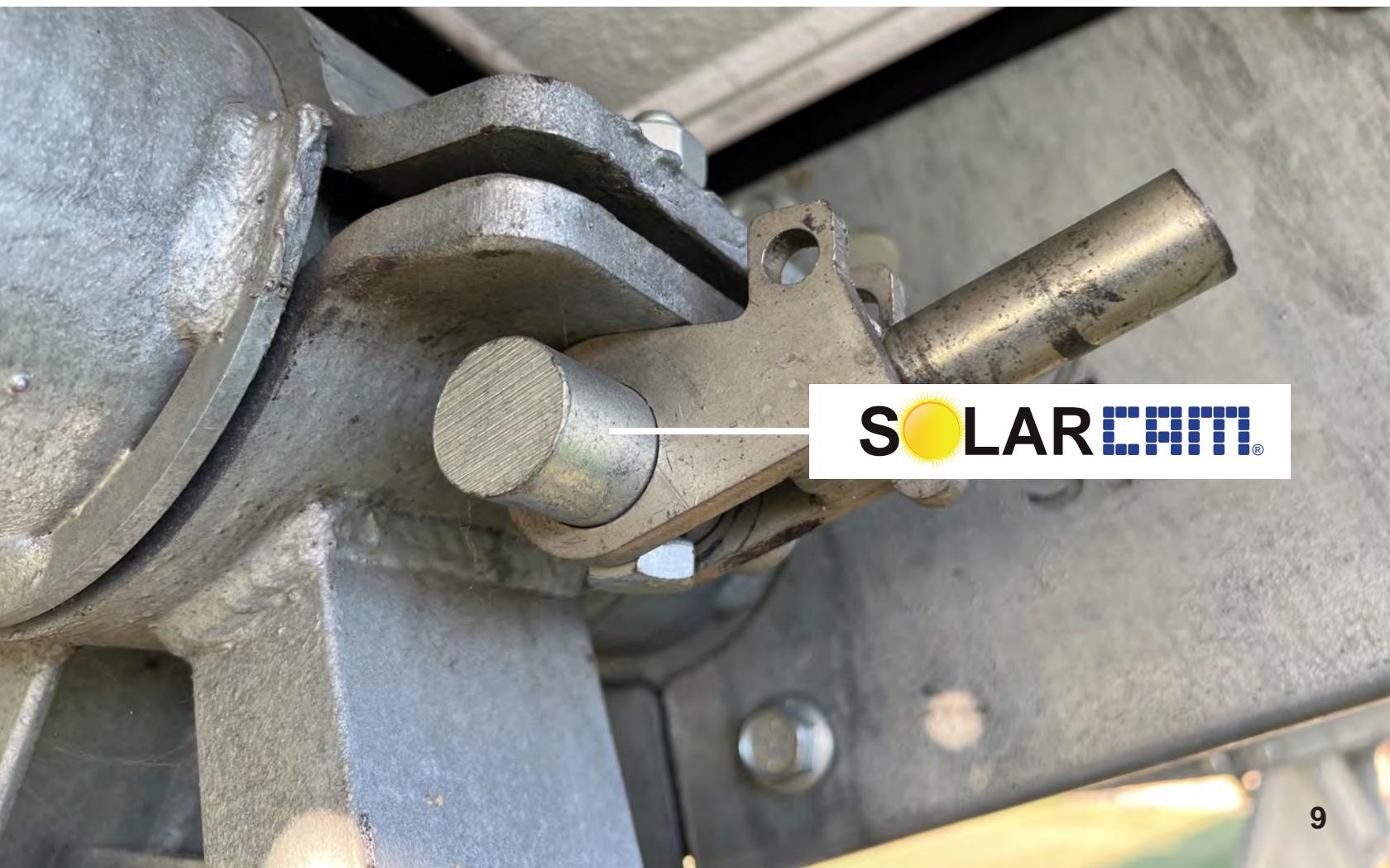




CRANK



Custom made exclusively for Ag Technologies with certified welding procedures that make **SOLARCAM** stands stronger than competitive structures, our patented design makes angle adjustment simple and easy without compromising strength. Just loosen the **SOLARCAM**, adjust the angle, and tighten.



**SOLARCAM**

Our exclusive stand design that incorporates an easy, simple, and strong support structure is just part of the value benefit **SOLARCHIT** offers. The high performing solar panels, microinverter technology and simple electric design avoid high voltage DC wiring inherent to string inverters. All of these complement the support structure to give **SOLARCHIT** owners a long term value benefit package only available with **SOLARCHIT** from Ag Technologies Inc.



Ribbon Cutting Event for Fulton Co. REMC Solar Project, October 2021

## 12-Month Production Goal Achieved in 11 Months!

The physical value from **SOLARCHIT** is augmented by the company behind the product. Ag Technologies Inc. is part of a multiple location farm equipment business that has over 30 years of success, growing from a single location in Rochester, IN to stores that cover North Central Indiana. A solar system is a long-term investment. The product and the company behind it need to be up to the task.

**SOLARCHIT** offers you the entire package to make your investment in top quality equipment and solid support the best value available.

# INSTALLATION

We don't subcontract out our array work like many solar companies do. After-installation costs and issues are all too often ignored in the purchase conversation. We are a 1987-founded company, family owned and operated and we plan to be here supporting our customers for a long, long time.



Crane cap setup for Megapack™ Battery Installation.



Solar panels may look alike, but there is a lot of difference in the quality of solar systems and the company behind an installation. At Ag Technologies our **SOLAR<sup>CH</sup>** projects provide the highest quality installations. UL Listing and NABCEP certifications are just two visible quality confirmations. Innovations such as our “off grid” products and bifacial panel offerings continue a tradition of continuous improvement at Ag Technologies.



# UNDERWRITERS LABORATORY LISTED (UL LISTED)

**SOLARCAPTI** solar stands offer a unique opportunity to improve net energy yield by adjusting the tilt to the solar rays throughout the year. This premium solar system is now certified by Underwriter's Laboratories.



What that means is that certification of the mounting system is in place and the entire system is properly grounded and confirmed to meet the specifications of snow and wind loads. At Ag Technologies we continue to work to improve the quality of our products and earning the official UL Listed certification is just one more step of our quality journey.

# NABCEP (NORTH AMERICAN BOARD OF CERTIFIED ENERGY PRACTITIONERS) CERTIFICATION

There are a lot of solar installers out in the market, spanning the entire range of size, capability and quality certification. Ag Technologies has earned a NABCEP certification for solar installations so you can be assured that an entire system that has been reviewed by us will meet the most stringent parameters for efficiency, durability and safety. We're proud of the products we sell and the customer service we provide and our NABCEP certification is verification of our dedication to quality and customer care.

# OFF GRID

At Ag Technologies we intend to meet our customers' needs whether large or small, of different applications and different needs. We've added off-grid to our portfolio and have successfully supplied off-grid solar solutions to a number of our customers. With rising costs of installing utility services to remote locations or needs that may not justify the investment we offer simple battery-backed off-grid solar solutions. Let us know what your needs are and we'll do what we can to meet those needs.

# BIFACIAL SOLAR PANELS



Rear View of cap array with Bifacial Panels

For decades, solar panels were made with glass on the front side and polymer back sheet on the rear side of the solar panel. Design changed some years ago with the introduction of bifacial solar panels. While light entering the rear side offered improved energy yield and the glass back sheet provided more panel strength the cost of the bifacial panels prevented high utilization. With that change, Ag Technologies moved to offer bifacial panels with their inherent advantages. Bifacial technology incorporated into a tilt-adjustable solar stand offers our customers a unique combination of solar efficiency and durability.

# OUR CHOICE OF MONITORING SYSTEM PUTS THE SYSTEM'S INFORMATION ON THE INTERNET FOR UNMATCHED SYSTEM TRANSPARENCY

Whether you want your information on-the-go or in the comfort of your home or office — we deliver.

With our monitor receiving data from each microinverter on a real-time basis, the owner can see what is happening immediately. Data is stored and can be retrieved at any time in whole system reports or individual panel reports.

Provided data includes AC voltage, DC voltage, frequency, temperature, and more real time based graphs and numerical data. No more guessing about what is going on. There is no match for industry-leading microinverters and we install them on every system we sell.



# OUR CHOICE OF MICROINVERTERS PROVIDE THE BEST IN CLASS ENERGY YIELD



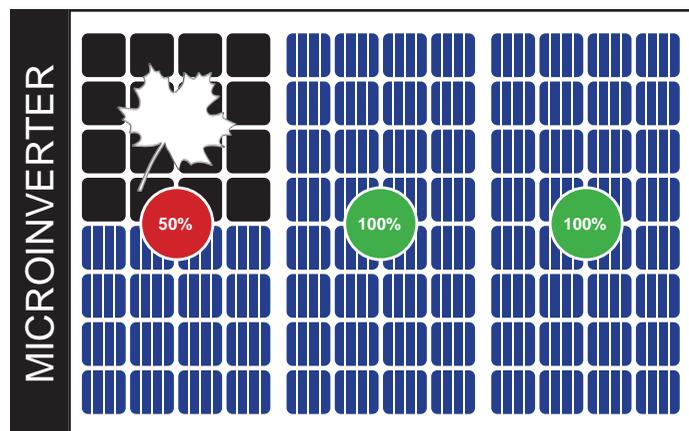
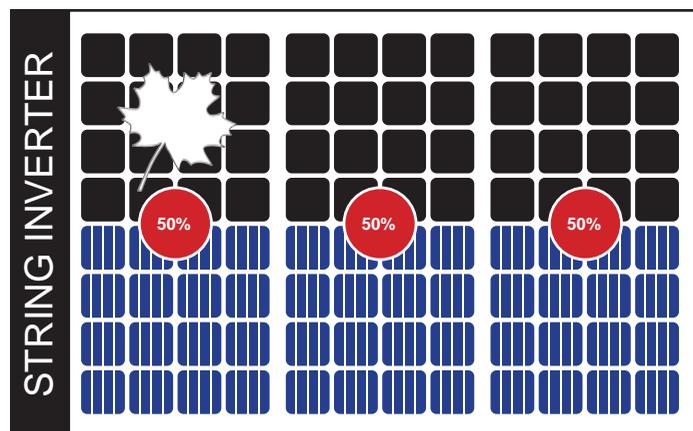
Our choice of microinverters change the game in solar production. Higher efficiency and 'smart system' integration make them the only choice for cutting edge solar systems!

This technology comes battery storage ready with home energy consumption tracking. Don't start a 40-year solar journey with outdated technology and less intelligent software.

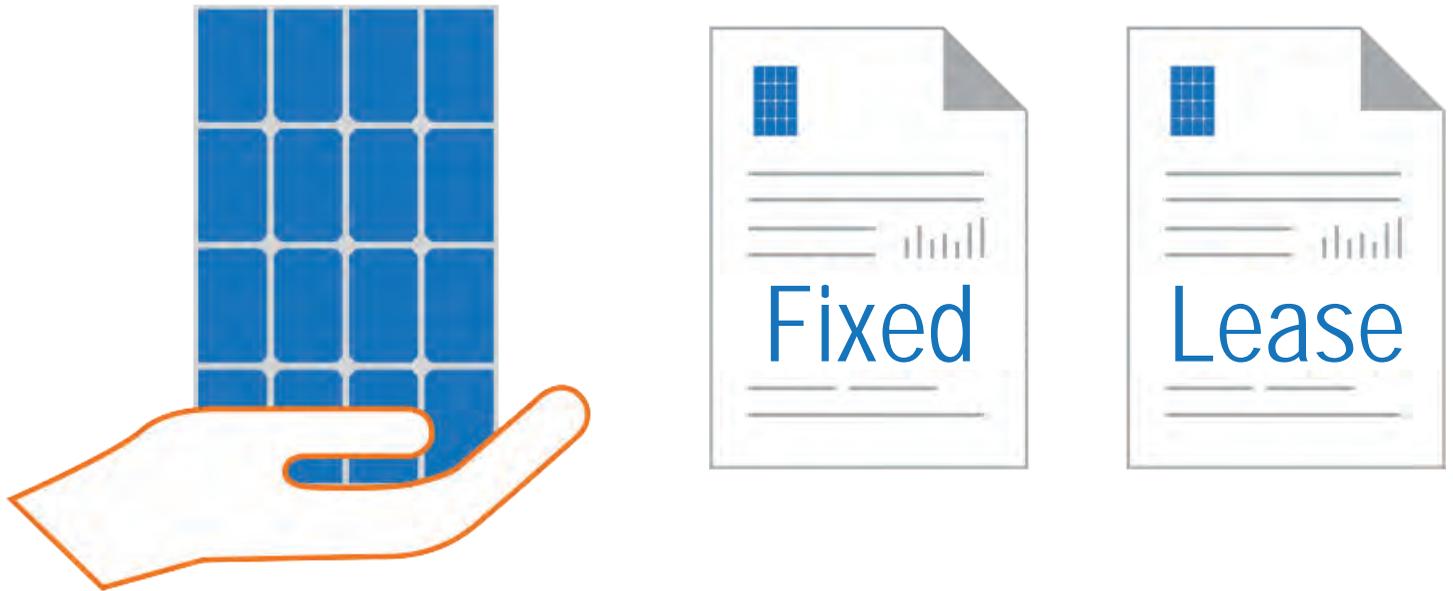
## Microinverter vs. String Inverter

With one panel shaded in a 'string inverter' system the other two panels' production is limited by the shaded panel, and shown in the image below.

With one panel shaded in our system the other two panels aren't inhibited. With snow, frost, debris, and other limiting issues on individual panels the microinverter maintains the highest energy yield – an advantage for 25+ years!



# FINANCING YOUR SOLAR SYSTEM



We understand that funding the up-front costs of a solar energy system presents a challenge to some customers. For that reason we offer:

## AN EXCLUSIVE LEASE

- Leasing provides low monthly payments.
- Customers can elect to keep the investment tax credit or pass the tax credit to the leasing company.

## BANK FINANCING

- We have arranged financing through a number of financial institutions with payment terms up to 10 years.

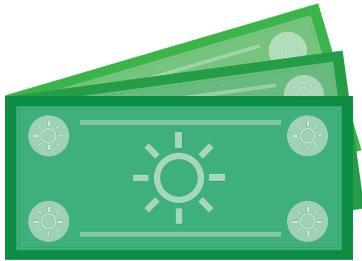
## GRANTS AND INCENTIVES

- We offer assistance at no charge for the application process for grants such as the USDA REAP Grant and other incentives for our **SOLARCAM** customers.

Contact us at [www.solarcam.us](http://www.solarcam.us) for best-in-class solar and financing options.

# SOLAR MYTHS DEBUNKED

Misconceptions prevent people from saving money with solar energy. Let's start debunking these myths.



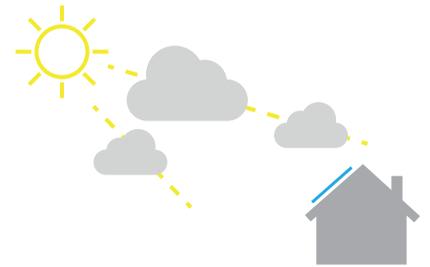
## Too expensive?

One of the most stubborn myths about solar energy is that it is too costly for most owners. In reality, solar is more affordable than ever and the options for financing solar are increasing all the time.

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## Not enough sun where I live?

Solar energy systems can work well in a wide variety of places, including foggy and cold climates, and on overcast days. Germany, a country not known for massive sun, is a leader in global solar.



## Solar can't pay for itself?

Many owners are able to get solar with no money down and see reduced energy costs immediately. See us for detailed cash flow evaluation.

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## Hurts my home value

A recent study showed that homeowners who purchase a solar energy system actually add to their property value. Homes with solar are likely to sell more quickly, too.



## ENVIRONMENTAL BENEFITS

Climate change is currently getting more acknowledgment than ever. At Ag Technologies, we provide a quality installation that will provide years of clean energy while also providing a solid financial return on investment. We suggest our customers value the environmental benefits of a **SOLARCAM** system however they want. Everyone agrees that solar provides positive environmental benefits, the only question is how valuable one believes that is!



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## ABOUT THE ENVIRONMENT

If you are concerned about the impact of energy from fossil fuels on our environment, the fact is that solar-produced energy has zero negative impact on the environment. Solar protects the environment for future generations.

Every 7kW array keeps enough carbon out of the air to equal the carbon that 6.75 acres of forests consumes!

Currently, the systems we've installed prevent tons of carbon from coal-fired power every day.