STEEL & SOLAR

STRENGTH MEETS SUSTAINABILITY





SOLAR STRUCTURES

THE SUN IS ALL AROUND US.

AND SO IS SOLAR TECHNOLOGY.

THE MARKET IS EXPANDING BY LEAPS AND BOUNDS.



NUCOR BUILDING GROUP IS ROOTED IN STEEL.



In the last decade, the solar market has grown by an average of 49% every year.

2020 saw a new solar project installed every 75 seconds.

Over the next 10 years, U.S. solar capacity will more than triple.



WHAT'S DRIVING THE CHANGE?

Price.

Solar PV prices have fallen

70% over the last 10 years.

WHAT'S THE EFFECT?

More companies are committing to solar technology.

Almost 1/2 of all corporate solar capacity has been installed in the last three years.

NOW IS THE TIME TO FIND A SUPPLIER THAT'S A TRUE PARTNER IN THIS GROWING INDUSTRY.

WE'RE ONE OF NORTH AMERICA'S LARGEST AND MOST EXPERIENCED MANUFACTURERS OF METAL BUILDING SYSTEMS.

Our brands have over 220 combined years in the industry. Since our inception, we've been using our know-how to push innovation and address needs across the construction trade. With everything we do, sustainability is a focus. We're active members of the MBMA Energy Committee and the U.S. Green Buildings Council and are constantly finding ways for our products to contribute to LEED[®] points. So it's no surprise we've taken on solar in a very tangible way.

Nucor Buildings Group Solar Structure is our division that provides customdesigned and engineered solar structures that support photovoltaic (PV) systems. This includes:

- Carports
- Canopies Solar Farms
- Charging Stations



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Over the last decade, we've designed and manufactured solar structure installations from coast to coast. They've ranged from highly architectural solar canopies to large institutional, commercial and utility-scale solar installations. Our experience and expertise have earned us DSA precheck approval, meaning California projects can move along much faster.

A TECHNOLOGY LIKE SOLAR

REQUIRES A TECHNOLOGICALLY ADVANCED SYSTEM.

As the leader in metal systems, we know there are a lot of standards that must be met, no matter what you're building. But in many ways, supports for but also lightweight. That lower mass solar panels have even more exacting specifications. If the structure is not perfect, the system will not function as efficiently—or even at all. With Nucor Buildings Group Solar Structures, you never have to worry about if our product will accommodate the PV panels. We guarantee fit and compatibility.

Because we know steel inside and out, we've found ways to fabricate this amazing alloy to be not only strong, density reduces stress on foundations and saves on shipping costs. Plus, like all of our structures, we design them to be straightforward to install, durable and easy to maintain.

WE TAILOR EACH SYSTEM FOR EVERY PROJECT.

Our years of partnering with solar contractors has shown us that no two projects are the same. That's why we offer customized solutions for our clients. We consider:

- **JOB:** What's being installed? How is it being used?
- **SITE:** How much space is there for installation? Is the solar structure on the ground or atop another structure? What are the limitations of the site?
- **REGION:** What's the weather—is there high snow or wind? Are earthquakes a possibility? What local regulations apply?



Only after we answer these questions and many more—do we start designing solar structures. Along the way, we work with engineers, developers and architects on the project to make sure we're giving them exactly what they expect. The result is an end product that surpasses off-the-shelf versions in every way, by addressing every nuance and meeting all of the client's needs.

CASE STUDY

TESLA V3 SUPERCHARGER STATION LAS VEGAS,NV

Solar ground canopy over 7,600 sq. ft. parking lot Two T-carports, 6 high 20 tons Holds 345 panels 138 kW capacity

PUTTING SOLAR IN THE HEART OF THE STRIP.

When your city is lit up in neon 24/7, electricity is a big deal. Las Vegas took a green step forward when a Tesla Supercharger V3 station was installed next to the High Roller observation wheel. And thanks to Nucor, it's equipped with a solar ground canopy that's not only ecofriendly but visually appealing, too.



Tesla asked for a structure that looked less industrial than the standard carport. To satisfy that request, we designed Y-shaped columns that made the vertical posts look thin and light and also allowed us to drastically reduce the depth of the rafter. As a result, the unique structure blended seamlessly into the beautiful surroundings.

CARGON GROOM COLORING

CASE STUDY

IKEA BALTIMORE, MD

Ground canopy over 78,000 sq. ft. parking lot 10 T-carports, 6 high 190 tons Holds 3,924 panels 1490 kW capacity

HELPING A RETAIL GIANT REACH LOFTY GOALS.

IKEA, the world's largest furniture retailer, is known for their flat-packaged goods and Swee meatballs. But they're also getting recognition these days for their sustainability. The brand ha committed to being 100% powered by renewa energy by 2025. One way they're working tow that is by making use of their massive parking

IKEA had a few "musts" on their list when they came to us: the structures had to be cost effect quickly deployable and not intrusive on parkin spaces. So, Nucor developed T-carport and



dish	canopy solutions for them that left ample car room. This was made possible by minimalist
ı	support beams that were smaller to begin with,
las	as well as longer span canopies that required
able	fewer of them.
ward lots.	Once installation of their custom solar structures was complete, the effects were
/	almost immediate. The generated solar power
ctive,	significantly offset energy the store needed
ng	to purchase. Over a three-month period, their
	commercial demand fell 84%.



A STRUCTURE FOR EVERY TYPE OF PROJECT.



Standard Carports Smaller canopies that are designed to extend over one or two rows of parking spaces. Canopies can have a positive or negative pitch and can be 3, 4, 5 or 6 panels high.



Custom Carports Options include Y-shaped columns, Y-shaped rafters, a curved facade or a water management feature.



Ground Canopies Larger canopies with long spans that can extend over an entire parking lot. Can be single slope or flat.



Garage Canopies Long span canopies that sit atop a multi-story garage.

WE'RE HERE TO SUPPORT YOU.

We offer the products and service to fit whatever your next solar project demands. Our years in the metal building systems industry and our experience catering to the solar market are a testament to our skills and expertise. We've proven our ability to meet exact specifications and have engineered lightweight structures that cost less, last longer and simplify installation. And our tailored-design approach means you get a system that's customized precisely for you.



With Nucor Buildings Group Solar Structures, strength meets sustainability. Contact us to talk about your next project.



SOLAR SOLUTIONS

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