



OUR WORK

PROJECT PROFILES

College of Lake County

PROJECT OVERVIEW

Verde Solutions worked with the College of Lake County (CLC) to install solar panels across two acres of land on the west side of campus and across 13 rooftops. Tier 1 equipment was used for the Solar Panels, Inverters, and Mounting Systems to generate approximately 2.5 million kWh of annual energy. CLC was the largest prevailing wage project at the time in Illinois. The college was able to finance this solar development through a power purchase agreement (PPA) with Verde, which meant no upfront costs for the installation of solar panels.



“ As Director of Facilities for College of Lake County’s multiple campuses, I was pleased to have the pleasure to work with Verde Solutions on our Grayslake Campus Solar Installation. The solar project was awarded after a strenuous two-year RFP process, and we could not be happier with the results.

The Verde Team worked with our legal, engineering, facilities, and grounds staff every step of the way. Whether gathering data to present to our board and President or working out specific work schedules for our students, Verde was responsive, hard-working, and attentive to the details. College of Lake County prides itself on its leadership towards a more renewable future and is thankful for partners like Verde Solutions who help on this mission.”

MIKE WELCH, DIRECTOR OF FACILITIES, COLLEGE OF LAKE COUNTY

4,997

MODULES

\$187,000

SAVINGS YEAR ONE

\$2,466,039

KWH GENERATED
PER YEAR

ESTIMATED TO SAVE OVER

44,869

METRIC TONS OF CO2
OVER ITS LIFESPAN

Project Profiles

KOMAREK

PROJECT OVERVIEW

Verde Solutions partnered with K.R. KOMAREK Inc. to install a solar energy system on its new manufacturing facility in Wood Dale, IL. This photovoltaic system is estimated to save \$1.6 million in energy costs over its lifespan, have a 2.9-year payback period, and a 21.8% internal rate of return (IRR). The array consists of 850 bifacial PV modules. Bifacial solar panels have two faces and produce energy from both sides, front and back. Therefore, the solar PV system will also generate power from light reflecting off the roof, making good use of limited roof space.



“ Going green means reducing our CO2 footprint by reducing almost 10,000 metric tons of CO2. To put a perspective of this, this equvalates to over 160,000 trees grown in ten years! At KOMAREK we don't talk about helping the planet; we do something about it!”

JAN PFLUGFELDER, CEO & PRESIDENT, KOMAREK

850

BIFACIAL PV
SOLAR PANELS

GENERATE

86%

OF TOTAL POWER CONSUMED
AT THE FACILITY

\$1.6 million

ENERGY COST SAVINGS OVER
LIFESPAN

SAVING

10,000+

METRIC TONS OF CO2 OVER
ITS LIFESPAN

Martin Public Schools

PROJECT OVERVIEW

Martin Public Schools is the first school in the state of Michigan to install solar. Their goal is to move the school towards energy independence and reduce their impact on the environment.

Verde Solutions worked closely with the Martin Public School Board to develop a multi-phase project that helped them move toward their goal of energy independence. Phase 1 of the project generated up to 40% of the district's energy needs. We are finalizing the second phase which incorporates Combined Heat and Power (CHP) technology into their renewable energy solutions.



“ As superintendent, I am pleased that we have implemented this amazing solar project. With an intention to reduce Martin Public School’s carbon footprint on the environment, we are modeling an example of responsibility for our students and community.

Our collaborative work with Verde Solutions illustrates our commitment to energy efficiency, while committing to a green educational environment. We are very pleased to partner with Verde Solutions and I truly believe that generations to follow will benefit from this environmental investment at Martin.”

DR. DAVID HARNISH

622

SOLAR PANELS
PROVIDED

183

KW DC ARRAY SIZE

198,222

KWH GENERATED YEARLY

\$450k

TOTAL PROJECT COST

Newcomerstown

PROJECT OVERVIEW

Newcomerstown is one of the first communities in Tuscarawas County to utilize solar energy. Mayor Patrick Cadle was instrumental in implementing this project on the land next to the water treatment and sewage treatment plants which consume the majority of the Village's energy.

Verde Solutions worked closely with Mayor Patrick Cadle to design a ground-mounted solar array to meet the village's sustainability goals and significantly lower energy costs. By utilizing a 25-year Power Purchase Agreement, there were zero upfront costs for this project. With this project's successful installation, Newcomerstown is hoping that other neighboring communities and towns will follow suit.



“ Our projects with Verde Solutions will create a funding stream that will help Newcomerstown rebuild its infrastructure and improve our employees’ wages and standard of living. Yes, it will lower our electric bills, but it will be a catalyst for change not just for our community but for many other communities around us who see its success.”

MAYOR PATRICK CADLE

2,500

SOLAR PANELS

854 KW

SYSTEM SIZE

1,261,329

KWH GENERATED YEARLY

\$2M

SAVED ON ELECTRICITY OVER
LIFESPAN

Project Profiles

SOS Children's Villages Illinois

PROJECT OVERVIEW

After construction had begun, Verde Solutions joined the project and designed the solar system to maximize available roof space for clean energy production. This feat required tenacity to overcome challenges, such as permitting issues and adapting the roof design to accommodate solar panels. Despite supply chain issues due to the COVID-19 pandemic, the Verde Solutions team demonstrated adaptability in keeping this unique project on track. The project qualified for net energy billing with ComEd and Renewable Energy Certificates through the Illinois ABP program. This helped reduce the operating expenses of the Community Center, freeing up funds for vital services for Chicago youth.



“ SOS Illinois is known for its innovative approach to foster care that embraces keeping siblings together and providing a nurturing environment. As an organization dedicated to healthy communities, the connection between the SOS Illinois mission and the solar energy system is clear.

This project was much more than just solar panels. It was about ways that they could shine a light on our mission.”

TIM MCCORMICK, CEO, SOS CHILDREN'S VILLAGES ILLINOIS

134

SOLAR PANELS

53KW

SYSTEM SIZE

155,266

GALLONS OF GAS
ENVIRONMENTAL IMPACT

\$250,000

SAVED ON ELECTRICITY OVER
LIFESPAN

Project Profiles

DHL Express at Hartsfield-Jackson Atlanta International Airport

PROJECT OVERVIEW

As a logistics and shipping company serving the global economy, DHL Express has been taking active steps to reduce its carbon footprint in its buildings and fleets. At the Atlanta airport, DHL Express leases about 65,000 square feet of space from Worldwide Flight Services. To support their environmentally friendly initiative, DHL planned to add a solar array to the roof, which would further contribute to the airport's efforts to operate more sustainably.

SOLUTIONS PROVIDED:

With a facility that includes lithium ion powered forklifts and a BAS HVAC system, the goal was to provide all needed energy through a PV solar system, resulting in a LEED certified building. Verde Solutions, in collaboration with general contractor ARCO Murray, was charged with this task, which required clearance from the Federal Aviation Administration. Once the permits were approved, Verde installed a roof-mounted PV solar system with 1,440 modules, 8 inverters and a data monitoring system, estimated to produce 28,472,822 kWh over its 30 year life span.



1,440
MODULES

525.6 KW-DC
ROOF MOUNTED SYSTEM

28,472,822 KWH
GENERATED
OVER LIFE SPAN

ESTIMATED TO SAVE CO2
EMISSIONS EQUAL TO
2,265,138
GALLONS OF GAS CONSUMED