

Solution

The panel is the most important component of the solar Photovoltaic (PV) system. The system’s efficiency is driven by the panel’s ability to absorb solar irradiation. The PV panel is the single component that directly interacts with the sun. The panel’s efficiency lies in its electron concentration’s absorptive capability.

We support the total solution by offering the premier solar panels and components. We have the knowledge to solve your requirements with the industry’s leading manufacturers and product application support.

Components	Energy Efficiency Audits	Electric Vehicle Charging Stations
Panels	Lighting & Controls	Residential
Racking	Motors	Commercial
Connectors	Drives	Fleet
Inverters	ComEd Rebate	
Boxes	LEED Green Associate on staff	
Meters		
Switches		
Displays		
Indicators		
Systems Management Software		
	Technical Education Programs	
	Customized on-site classes	
	Hands-on Training	
	Seminars	

FEATURING SOLAR PRODUCTS FROM THE FOLLOWING LEADING MANUFACTURERS

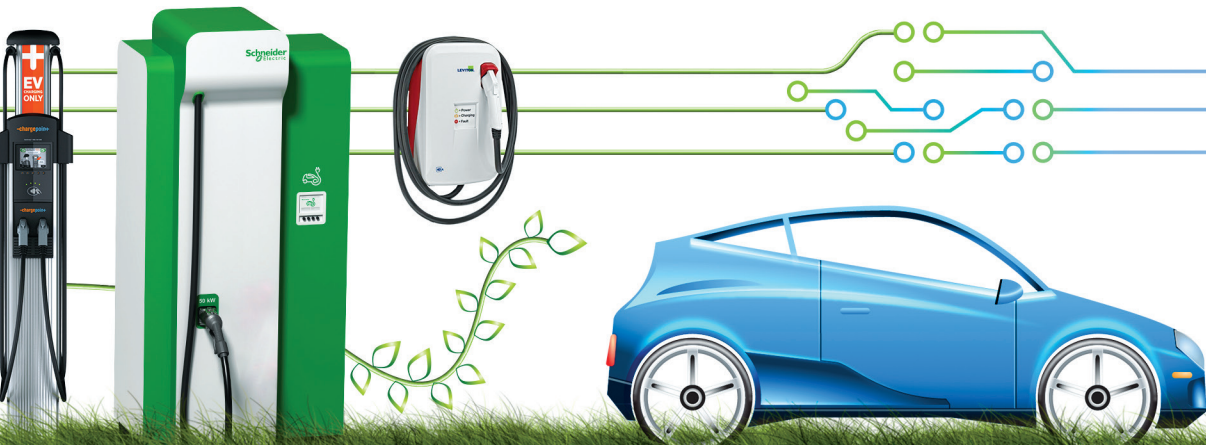




ELECTRICAL VEHICLE CHARGING STATIONS

Steiner represents the leading manufacturers for networked and individual EV charging stations to meet your needs for commercial, industrial and residential requirements.





“Taking Total Responsibility & Taking It Very Seriously”

24 Hour Emergency Service 1-800-STEINER (783-4637)

Locations:

ELK GROVE (Corporate Headquarters): 1250 Touhy Avenue, Elk Grove, IL 60007	(847) 228-0400	Fax: (847) 228-1352
ROCKFORD: 6900 Rock Valley Parkway, Loves Park, IL 61111	(815) 633-2900	Fax: (815) 282-2922
ST. CHARLES: 3755 Swenson Avenue, St. Charles, IL 60174	(630) 377-6600	Fax: (630) 377-7952
GURNEE: 4210 Grove Avenue, Gurnee, IL 60031	(847) 623-2028	Fax: (847) 623-7007
CHICAGO: 2415 West 19th Street, Chicago, IL 60608	(312) 421-7220	Fax: (312) 666-5027
TINLEY PARK: 18600 Northstar Court, Tinley Park, IL 60487	(708) 802-6400	Fax: (708) 429-0300
CRYSTAL LAKE: 200 S. Virginia Road, Crystal Lake, IL 60014	(815) 261-3400	Fax: (815) 459-1500
HOBART, INDIANA: 1600 Northwind Parkway, Hobart, IN 46342	(219) 947-8800	Fax: (219) 947-2300

STEINER ELECTRIC COMPANY:

distributor of

- Electrical Supplies
- Metalworking Solutions & Industrial Supplies
- Automation Products & Information Systems
- Generator Sales, Service & Rental
- Energy Management Solutions
- Motors & Drives
- Energy Efficient Lighting & Controls
- Barcode Wireless Data Collection Solutions
- Low Voltage & Structured Cabling
- Network Infrastructure Products
- Safety & Janitorial Products

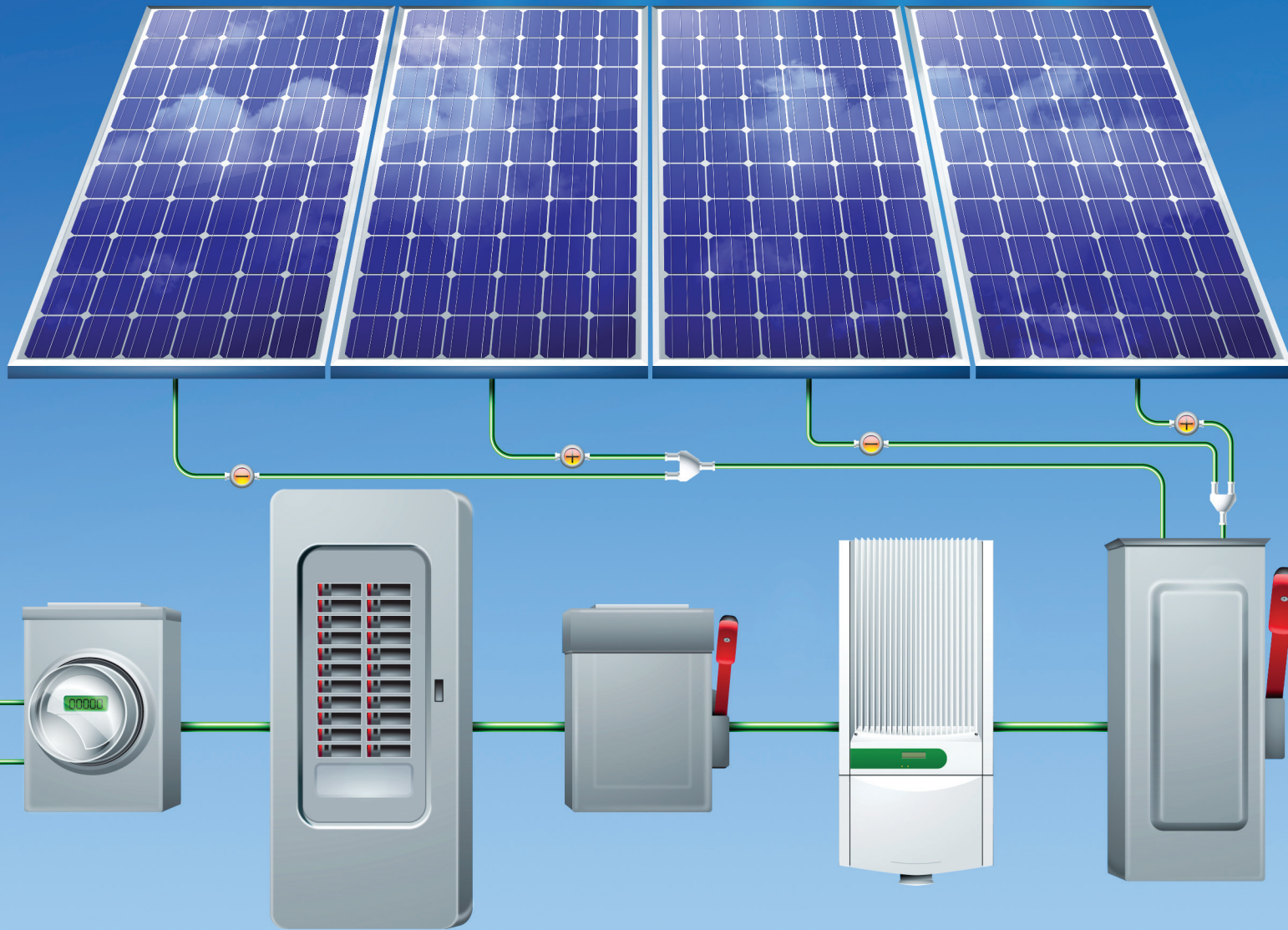
ISO 9001:2000 Registered Firm

special services

- Band Saw Blade Weld Center
- Integrated Supply/MRO Inventory Management
- Custom Products Assembly
- Product & Technical Training
- Preventative Maintenance Programs
- 24 Hour Emergency Field Services
 - * After Hours Inventory Availability
 - * Band Saw On-Site Services
 - * Motor Repair Service
 - * Generator Service & Rental
 - * Drive Startup & Repair



SOLAR SOLUTIONS





We Know Clean Energy Solutions

More than ever companies are scrutinized on not only profitability, but also their sustainability and social responsibility. Steiner offers solutions that help our customers drive and maintain their goals on all three levels. Take advantage of our products and services for clean energy solutions for lighting and controls, motors, drives, photovoltaic (solar) and electrical vehicle (EV) charging stations from the industry's leading manufacturers.

This brochure highlights our solutions for solar products and support. We are available to assist you during your evaluation and design process.

Steiner continues to invest in the future to anticipate and provide the technical expertise, products and support needed for you to understand and make the best decisions about the latest technology.

Take advantage of our complete solution.

Thank you for giving us the opportunity to work with your organization.

Richard A. Kerman
President & COO



How Solar Works

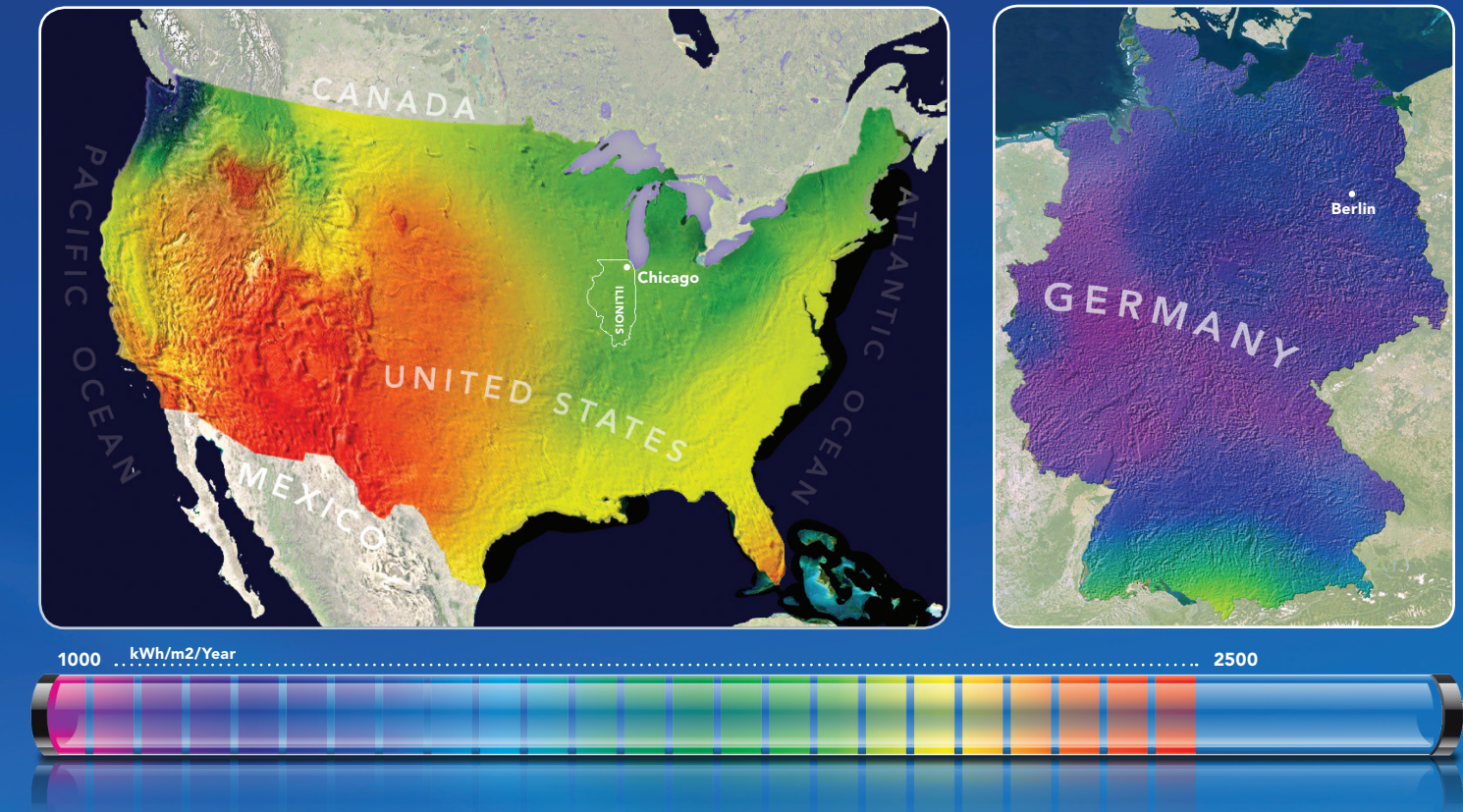
Solar Photovoltaic (PV) panels generate electricity through sunlight. The silicon in PV panels holds free electrons. The sun's intense light energy knocks out these free electron particles creating an electrical current. The current flows through the system, as illustrated above, to where you need it most.

Solar PV is clean, renewable energy production and a great alternative solution for your increasing energy needs. Solar energy produces power with zero emissions. Steiner provides the complete turnkey solution from concept to startup. We assist you with PV panel selection, grid connection and system maintenance.

The Process

Manufacturer	Steiner	Contractor/Installer	Engineer
Warranty Support	Proposal	Install	Bill of Material
Trouble Shooting	Financing	Code	String Size
Preliminary System Design	Engineering	Permit	Point of Attachment
	Technical Assistance	Site Analysis	Project Feasibility Analysis
	Project Integration		

Photovoltaic Solar Resource: United States & Germany



Annual average solar resource data are for a solar collector oriented toward the south at a tilt = local latitude. The data is derived from a model developed at SUNY/Albany using geostationary weather satellite data for the period 1998-2005. The data for Germany were acquired from the Joint Research Centre of the European Commission and is the yearly sum of global irradiation on an optimally-inclined surface for the period 1981-1990.
Source: Based on the information provided by NREL, National Renewable Energy Laboratory for U.S. Department of Energy.

Why Solar Works

Illinois is a strong environment to harvest sunlight. Germany is considered the world's harvesting leader in solar. Northern Illinois absorbs over 38% more solar irradiation than anywhere in Germany. Our landscape has the potential to harvest more solar energy than the current world leader. Additionally, Illinois is a Renewable Portfolio Standard (RPS) state. The RPS is a regulation that requires 25% of electricity generated in Illinois to come from renewable resources by 2025. The time is now. Demand is building.

Solar protects your budget from spiking energy costs. Steiner will maximize your incentive potential to accelerate the project's ROI.

Cost Control

- Rebates
- Tax credits
- Production incentives
- Net metering
- Renewable energy credits
- Carbon credits
- Grants
- Loans
- Lease options
- Power purchase agreements
- ROI analysis

Turnkey Solution

- Complete Photovoltaic studies
- One source engineering, permitting and installation
- Grid tie-in, codes and standards compliance
- Facility electrical distribution design
- Project management, installation and commissioning
- Integration with other energy efficiency projects
- Monitoring and reporting
- Public display kiosks
- Service agreements, Maintenance services and Extended warranties