

JUDITH
INDUSTRIAL



RENEWABLE ENERGY



[Company Profile](#)

[Competencies & Services](#)

[Wind Energy](#)

[Solar Energy](#)

[Products](#)



COMPANY PROFILE

Judith Industrial GmbH & CO. KG is an industrial solution provider with engineering, trading and export competences. The company is a technology independent vendor and supplier of industrial equipments.

While implementing a project, we offer our customers solutions that are tailored to their individual needs.

We combine well-proven business principles with an innovative performance profile. Our company dispose a network of engineers and manufacturers out of which we form a unique and made-to-measure strategic alliance for every single contract, aiming to bring together the best practices and products.

Since we profit from the excellent worldwide reputation of German engineers and products in plant engineering, we also feel indebted to it. We can offer a wide range of state-of-the-art industrial equipment including an integrated engineering service of our renowned manufacturers.

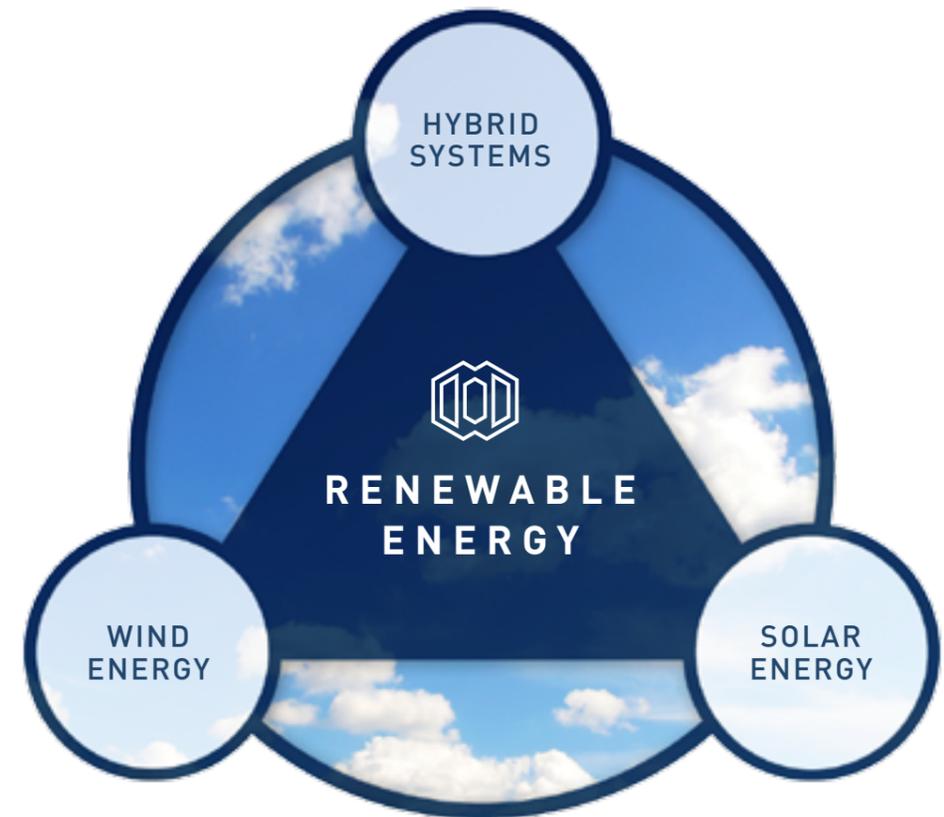
Our core business focuses on the export of spare parts, single machinery, individual equipment packages and complete turnkey projects. Our customers appreciate our willingness to assume the responsibility for the engineering, procurement and logistic of industrial components and spare parts.

We are presently providing an extensive and market-orientated range of products for a divers range of industries such as:

 **Off-Grid Solar/Diesel Hybrid Systems**

 **Wind Energy**

 **Solar Energy**



Company History

In 1984, Mr. Elk Judith, a former KHD engineer founded the Elk Judith Repräsentant Ciment-Groupe Company for the purpose of representing German middle-size companies in the cement industry of North Africa and Middle East. These companies are the original sup-supplier of the cement turnkey constructor. Quality and reliability led to a great reputation in the cement sector, so that many customers began approaching our company with further-reaching requests.

In 2006, Mr. Alexander Judith joints the Company after his study of Industrial Engineering and Management. By this way, we have constantly expanded our field of activities and are presently supplying a whole range of mechanical and electrical equipment for a divers range of industries.

In 2011 Mr. Alexander Judith founded the Judith Industrial GmbH & CO. KG. The company is registered with the German commercial court of registration No. HRA 28389 and represents a limited commercial partnership legal form.



COMPETENCIES & SERVICES

SYSTEM INTEGRATOR AND CONTRACTING

While implementing projects, we offer solutions to our customers that are tailored to their individual needs. Therefore, we can offer customized solutions to their individual needs. As a general contractor, we provide our customers all major and minor components. The company takes responsibility for the engineering, procurement and construction (EPC) usually in cooperation with specialists. Therefore we are an independent system integrator for solar, wind and hybrid power systems. We serve you from the first planning of your renewable power system, the system sizing, the choice and procurement of components up to the installation, training, monitoring and maintenance.

INSTALLATION, COMMISSIONING & TRAINING

We are in the position to offer installation services together with our customer or local installation partners. Our Company provides experts and specialist engineers from Germany for the Installation, supervision and commissioning of renewable power systems. We provide technical assistance and system operator training for each individual system. Our process and project management capabilities assure our clients a long-life of the power systems.

WHOLESALE AND EXPORT SERVICES PARTNER

We provide the most valuable industrial brands in the renewable market. These companies have many years of experience and are highly specialized in technical expertise. We act as a purchase agent for our customer by coordinating various equipment packages. In this regard we operate also as wholesaler and export services partner for original equipment manufacturer. Our service covers the complete export procedure.

MAINTENANCE AND MONITORING

Our renewable power systems are very reliable due to appropriate planning and the choice of high quality components. Judith industrial offers system monitoring through GSM data transmission. By remote GSM control we are able to check regular the data's of the system by the Internet. We are aware of the system performance and the required maintenance service. Furthermore we can offer regular check up service including the supply of the necessary spare parts.

LOGISTICS

We assume responsibility for the logistic and transport insurance. Our task is to facilitate the distance between Seller and Purchaser, to ensure a fast and secure delivery. Due to our profound knowledge concerning the flow of goods we can ship the goods by plane, ship, rail and truck including the highest level of transport insurances.



WIND ENERGY

WIND TURBINES

Growing energy demand stimulates the use of renewable energy sources, such as wind power, to provide sustainable and environmental-friendly power supply systems. We are experienced enough to bring together partners for building wind farms.

It is for this reason that Judith Industrial works closely with system manufacturers, component and engineering companies. Our aim is to maintain long-term trusted business relationships with these companies in order to find the appropriate solutions for the specific needs of our customers.

We are an independent contractor of new, second-hand and refurbished wind turbines

Our scope of services include:

- Dismantling wind farms
- Transporting wind turbines
- Container shipment to destinations on FOB / CFR basis
- Refurbishment of second-hand wind turbines
- Sales of second-hand or refurbished turbines
- Erection and installation of second-hand or refurbished wind turbines
- Commissioning of wind turbines
- Maintenance of wind turbines

SMALL WIND TURBINES

In areas with wind recourses, wind power is competitive with photovoltaic. Wind turbine produces direct current (DC) for serving loads and charging batteries. Wind turbines operate at night, during rainy seasons, and in the winter. By adding wind power as stand-alone or off-grid solar/diesel hybrid systems reduces operating cost. We are able to deliver wind turbines for a variety of industrial applications. We can select wind turbines with peak power outputs ranging from 200W up to 6000W including the suitable major and minor components.

SOLAR ENERGY

Growing energy demand in countries promotes and encourages the use of renewable energy sources, such as solar power, to provide sustainable and environmental-friendly power supply systems. Judith Industrial is an independent contractor for solar power systems. We coordinate all activities during the construction phase. Solar modules, mounting systems, inverters and transformers are delivered, assembled and wired. We provide all services from the very beginning until commissioning and the initial power is fed to the grid.

FREE FIELD PHOTOVOLTAIC POWER

Adapted to suit the local terrain, we design the plants, the type of modules and mounting systems. The exact sequence of plant design and installation is elaborated in detail during this phase. We remain by your side as your reliable partner over the entire project lifecycle.

SOLAR ROOF INSTALLATIONS

Judith Industrial plans, designs and implements solar roof installations of all sizes: the roofs of single or multi-family homes, agricultural and public buildings and commercial facilities. We provide expert consultancy – from the initial idea and concept to the final commissioning of the power plant.

OFF-GRID PHOTOVOLTAIC POWER

Off-grid power systems are an alternative to conventional generators, as they have very low operational costs. Solar systems can be used in rural households and public institutions. In addition to pure solar systems, we can design hybrid solar and back-up systems. With hybrid systems, you can combine different energy sources (for example, solar energy, small wind turbines or diesel generators) to reduce capital costs and increase availability. This allows larger consumers such as hotels or hospitals to be assured of permanent and reliable power supply.

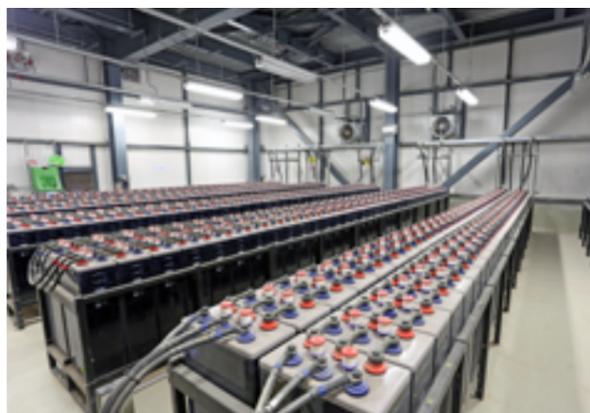


PRODUCTS



SOLAR MODULE

All offered solar modules are highly efficient and guarantee 80% of the initial power output even after 25 years. We rely on national and international manufacturers with the highest production standards. We offer especially designed solar modules for heavy-duty conditions in deserts and coastlines. Furthermore we provide with our solar modules a range of operating and test certificates including TÜV, IEC and CE.



STORAGE SYSTEM & ENERGY MANAGEMENT

The performance of a solar system is strongly dependant on a suitable storage system. We offer a wide range of long-standing storage technology for operators of PV systems. Whether you need a lithium-ion, lead-gel or lithium-mangan oxide battery, we offer our customer the most convenient selection of storage technology for solar systems. Highest quality standards ensure a live expectancy of up to 20 years.



INVERTER

Judith Industrial offers a wide range of inverters from various manufacturers in order to satisfy the diversity of customer requirements. We provide grid inverters, off-grid inverters, pump inverters and wind inverters for your individual industrial applications. In this regard we also deliver the necessary operating certificates and test standards including IEC, VDE and CE certification.



CHARGE CONTROLLER & CONVERTER

We offer a wide range of charger controllers and converter from various manufacturers in order to meet customer requirements. Due to our profound knowledge we provide systems with 12, 24 and 48 V. We offer all necessary components including solar charge controller with or without MPPT tracking, hybrid-charge controller, DC/DC converter, battery charger and controller.



SOLAR CABLE, MOUNTING & CONNECTOR SYSTEMS

As wholesaler we provide solar cables, mounting systems, batfuses and PV-junction boxes for photovoltaic systems. Our components assure highest safety, reliability and easy installation. We offer the entire range of components for standard sizes and customized solutions.



PV-DIESEL-HYBRID SYSTEMS

Diesel generators are often used in countries where the public grid cannot secure the basic energy supply. Due to this fact a growing number of PV-Diesel-Hybrid systems is subject of increasing discussions in many countries. The focus is the safe and steady supply of energy to remote areas; independence from rising diesel prices and the reduction of operating- and maintenance cost.

Judith Industrial has concentrated its know-how in system sizing and configuration of PV-Diesel-Hybrid-systems. It is for this reason that we have set up close relationships with Diesel generator and renewable components manufacturer in order to assure the most reliable PV-Diesel-Hybrid systems. We provide support with planning and design, engineering and project management as well as installation and commissioning.



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