



**maxsolar**  
*energy concepts*

**Holistic  
energy concept**



MaxSolar

## Innovative energy solutions along the value chain

MaxSolar GmbH, founded in 2009 and headquartered in Traunstein, develops cross-sector energy concepts and covers the entire value chain – from development, planning and installation to operation of the parks. The range includes photovoltaic and wind plants, energy storage (BESS), electromobility, heating solutions and power purchase agreements (PPAs) for a cost-effective and planable supply of green electricity.

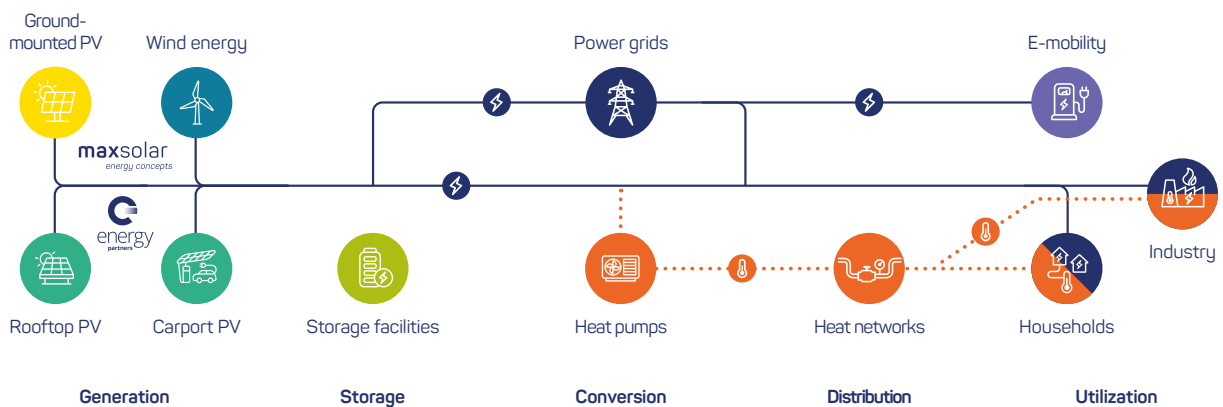
We offer our employees an attractive environment in which to take on responsibility and help shape a climate-neutral future. MaxSolar's corporate culture is characterized by strong team spirit and a can-do mentality. Every employee takes responsibility and makes a visible contribution to the company's success and growth.



Holistic concepts

## Cross-sector energy supply

Our commitment promotes a sustainable decentralized energy supply and strengthens regional value creation. By integrating electricity, storage solutions (BESS), heat and e-mobility, we create synergies that increase the efficiency of our energy supply and offer a holistic solution for the energy transition in municipalities.





## Certified quality

# Our services at a glance

We offer a wide range of services that cover the entire value chain. As a certified quality company, we take care of every step, from the initial consultation to potential repowering.

### › **Consulting:**

During the consulting phase, we focus entirely on individual needs and goals. With our many years of experience and in-depth expertise, we support our clients in implementing and financing projects.

### › **Expert opinions and studies:**

Our experts prepare detailed expert opinions and studies that provide a solid foundation for energy projects, including freedom-from-defects audits, yield audits, and performance audits.

### › **Project development:**

From greenfield sites to photovoltaic or wind power plants – as an independent power producer (IPP), we cover everything. Our range of services includes: site analysis and area evaluation, area acquisition, grid connection testing, plant and approval planning, securing the plant remuneration and public information.

### › **Realization:**

Our experienced teams take on every single step of the project, from creating the assembly documents to commissioning the plant. They see themselves as interface coordinators for the individual trades. We guarantee absolute peace of mind during the entire realization phase of a project.

### › **Operations and Repowering:**

We provide comprehensive operations services, both technical and commercial, to ensure maximum performance and profitability of the assets. In addition, we provide repowering services to upgrade the assets to the latest technology.

### › **Power Purchase Agreements (PPAs):**

Our expertise also includes the design of power purchase agreements (PPAs) to ensure long-term and stable sales opportunities for energy production, including hybrid PPAs as well as onsite and offsite PPAs that guarantee a flexible and efficient power supply as needed.



## Customers and partners

# Our customers in focus

Renewable energies are crucial to the future of our energy supply. Together with our customers, we are fully committed to shaping and advancing a sustainable energy transition.

### > **Municipalities:**

By making targeted use of open spaces for solar and wind energy, municipalities can not only make their energy supply sustainable, but also create economic and ecological advantages for their citizens.

In addition, we also provide support for municipal heating planning to ensure an efficient and sustainable heating supply at the local level.

### > **Landowners:**

Leasing open spaces for solar panels, wind turbines and combined battery energy storage systems (BESS) not only offers economic benefits, but also makes a positive contribution to sustainable energy generation and storage.

### > **PPA contractual partners:**

We offer customized power purchase agreements (PPAs) to anyone who is committed to a long-term, sustainable and cost-effective energy supply. Our PPA customers – for example, the chemical and steel industries, data centers, utilities and energy traders – benefit from stable and reliable electricity supplies that secure their energy supply while contributing to a sustainable energy transition.

### > **Community energy companies:**

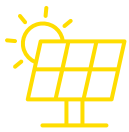
Promoting renewable energies at the local level through community solar parks can increase regional value creation and contribute to the sustainable development of the community. In addition, community solar parks make a significant contribution to the acceptance of solar and wind power plants.

### > **Investors:**

As a general contractor, we take on the turnkey realization of projects, creating scope for you to focus on your core business.

In addition, our subsidiary **Energy Partners** offers comprehensive 360-degree solutions in the field of renewable energies for trade and industry.





# Photovoltaics

## From sunlight to green energy

When planning ground-mounted solar installations, various types of land are considered for energy use. A variety of factors are taken into account, such as solar radiation, accessibility of the site for plant construction and grid feed-in, as well as environmental regulations and social aspects.

In combination with battery energy storage systems (BESS), excess energy can be stored and the efficiency of the plants maximized. BESS make it possible to use the energy generated as needed, which not only increases the security of supply but also relieves the burden on the power grid. By storing surplus solar power and feeding it back into the grid when needed, load peaks can be flattened and the need for additional reserve capacity reduced, further optimizing the use of solar power.



## Ground-mounted solar panels Planning and realization

When constructing ground-mounted solar energy systems, we place a high value on individuality and precision in every step of the process. We carefully consider a variety of mounting components to ensure that the system will function optimally. The modules are installed with a fixed elevation, with a robust steel or aluminum frame either anchored to the ground or securely fastened to concrete blocks. The tilt angle of the modules is precisely set during installation and then fixed to ensure maximum energy generation. Examples of eligible areas are:

- › **Landfills**
- › **former open-cast mining areas**
- › **former military training areas and munitions depots**
- › **Areas along highways or railroad tracks**  
(up to a distance of 500 meters)

Agricultural land and grassland can only be used for photovoltaic installations if they are located in a disadvantaged area as defined by Directive 86/465/EEC and have been approved by the federal states for use in photovoltaics.





### **Ground-mounted solar parks in a regional area**

## A win for people and nature

Studies by the Bundesverband Neue Energiewirtschaft/German Association for the New Energy Economy (bne) show that ground-mounted solar parks can make a significant contribution to regional biodiversity. The installation of a solar park achieves a significant ecological enhancement of the land compared to arable or intensive grassland use.



### **Citizen-owned solar parks**

## Regional value added

Citizens' solar parks increase the acceptance and participation of the local population by enabling them to directly participate in the energy transition. By promoting renewable energies at the local level, they can also boost regional value creation and contribute to the sustainable development of the community.



## Wind energy

### Onshore wind power

Our work helps to reduce dependence on fossil fuels and make a positive contribution to climate change. With each wind farm project, we are driving the transformation towards a more sustainable energy future and shaping a world in which clean and reliable energy is available to all.

Wind turbines use the kinetic energy of air currents and convert it into usable, emission-free energy through rotors and electric generators. Alongside photovoltaics, wind turbines are one of the most cost-effective forms of energy generation and a cornerstone of the energy transition.

By integrating large-scale storage systems (BESS), excess energy from wind and solar power can be stored and used as needed. This leads to a more even feed-in over the course of the day and helps to relieve the burden on the grids. At the same time, security of supply is further increased and a stable energy supply is ensured.

**To ensure the sustainable use of renewable energies and to promote local value creation and public participation in the energy transition, we maintain close partnerships with regional public energy cooperatives.**



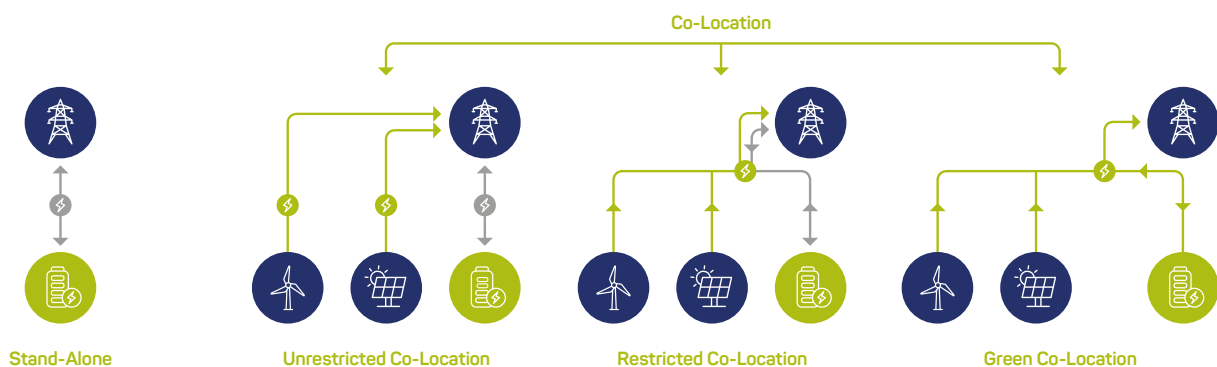


# Battery Energy Storage Systems (BESS)

MaxSolar offers customized battery energy storage solutions (BESS) for the reliable storage and optimization of energy. With our various business cases, we find the optimal solution for every application.

We take care of the entire process – from planning and approval to installation, commissioning and professional operation. We rely exclusively on high-quality, long-lasting lithium-ion batteries that meet proven standards and ensure maximum safety and performance.

**Our BESS business cases:**





Use green energy – independent and predictable

## The advantages of battery storage solutions at a glance

Storing energy from clean and renewable sources is crucial to ensuring a continuous supply of electricity.

Battery storage systems play a central role in the field of renewable energies by capturing excess energy and making it available to consumers at times of lower generation rates.

There are several reasons to store green electricity using storage systems:

› **Independence from electricity prices:**

Storing surplus energy reduces dependence on rising electricity prices.

› **Securing the electricity supply:**

Storage systems guarantee a continuous supply, even when energy production fluctuates.

› **Continuous use of energy:**

Stored solar energy can also be used when solar radiation is low, such as in the evening or at night.

› **Efficient use of energy surpluses:**

Excess electricity can be fed into the grid or used at a later point in time to take advantage of price fluctuations on the energy market.

› **Grid stability:**

Renewable energies from the sun and wind fluctuate. Storage systems absorb excess energy when production is high and release it when production is low. This stabilizes the grid and balances out fluctuations.

Overall, electricity storage systems play a crucial role in the integration of renewable energies into the electricity grid and make a significant contribution to ensuring a sustainable and reliable energy supply.





## Climate-neutral heat

### Green, regional, people-oriented

For us, rethinking means: We rely on regenerative heating systems and use renewable electricity from photovoltaics and wind power. This is supplemented by waste heat and natural geothermal energy, which are essential building blocks for CO<sub>2</sub>-neutral heat generation. This is because the energy transition can only succeed if, in addition to the electricity sector, the heating sector is also increasingly supplied with renewable energies.

The The Heat Planning Act/Wärmeplanungsgesetz (WPG), which came into force in January 2024, created a clear legal framework: all heating networks in Germany must be climate-neutral by 2045 at the latest. Municipalities are now obliged to develop strategies and measures as part of municipal heating planning in order to achieve this goal.

The municipal heating plan serves as a basis for:

- › **Significant reduction of CO<sub>2</sub> emissions in the heating sector**
- › **Reduced dependence on fossil fuel imports**
- › **More stable and future-proof heating prices**
- › **Strengthening of local value creation through regional service providers**
- › **Future-proof heating supply**

With our comprehensive know-how, we support cities and municipalities in municipal heating planning, feasibility studies and transformation plans in accordance with the requirements of the federal funding for efficient heating networks/Bundesförderung für effiziente Wärmenetze (BEW), as well as the planning and construction of regenerative district heating systems.

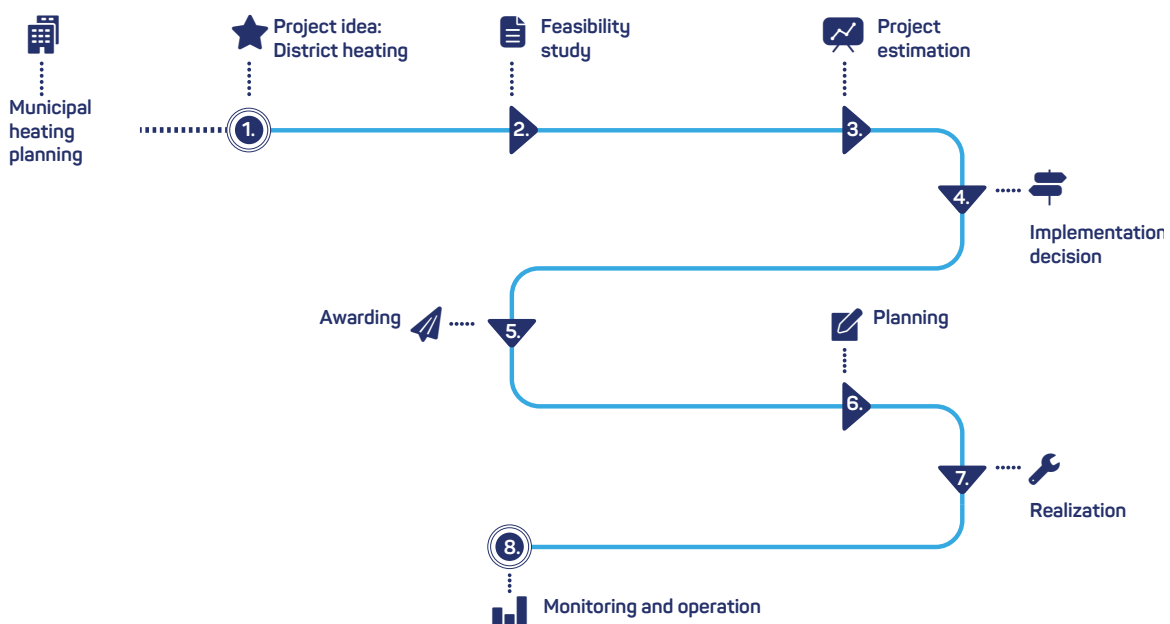
The aim is to ensure a future-proof, climate-neutral and efficient heating supply that meets local needs and sustainably reduces CO<sub>2</sub> emissions.



## Municipal heating planning

Our municipal heating planning is based on a thorough analysis of the current situation, the use of modern planning tools and the use of a digital twin. This virtual model makes it possible to precisely map real heating systems, simulate various scenarios and optimize energy flows.

Our holistic approach guides municipalities step by step through the entire process: from project planning and inventory analysis to potential analysis and the development of a target scenario, right up to the creation of a heating strategy. Public participation is also an important part of our work. Furthermore, we are a competent partner for implementation and ensure a sustainable and efficient heating supply.





## Electromobility

### Intelligent and sustainable charging infrastructure solutions

As a certified charge point operator, we offer cities and municipalities a one-stop service for everything from planning and installation to billing for e-charging stations. We also rely on future-proof technologies that ensure efficient and user-friendly use of the charging infrastructure.



### Sustainable charging solutions for municipalities

Charging as easy as possible –  
anywhere, anytime

- › Comprehensive charging options for the population
- › Increases the attractiveness of the location for tourism
- › Pioneer of the energy transition
- › Attractive electricity prices, long-term planning



## Our services

# Planning, construction, operation

### Consultancy

- › Location analysis
- › Demand planning and feasibility study
- › Profitability analysis

### Project planning

- › Technical planning of the charging infrastructure
- › Creation of a technical connection concept
- › Support with registration and approval processes and the implementation of required measures

### Installation

- › Delivery, installation and connection of the charging infrastructure
- › Coordination with energy suppliers and commissioning

### Energy management and billing

- › Integration into an energy and load management system to avoid expensive load peaks and reduce grid connection costs
- › Automatic recording and reporting of all charging processes

### Service

- › Operation of the charging infrastructure
- › Service and maintenance
- › 24-hour support





# Energy Partners

## **Customized energy solutions for companies, businesses, industry and real estate managers**

Companies and owners of large real estate are increasingly confronted with the challenges of climate policy and rising energy costs. The energy transition in Germany requires increased decentralized energy production, especially for energy-intensive industries and large commercial real estate.



## **A strong subsidiary for commercial energy solutions**

Energy Partners was founded out of MaxSolar GmbH with the aim of enabling quick access to scalable energy solutions and providing our industrial and commercial customers with affordable electricity and clean energy from local production. This is implemented with CO<sub>2</sub>-neutral energy systems and innovative digital solutions.

Thanks to the many years of experience of its parent company MaxSolar, Energy Partners is already a leading specialist for commercial and industrial energy solutions. Energy Partners acts as an agent and service provider for photovoltaic partners through its digital B2B platform and also offers a 360-degree range of services for the realization of holistic C&I energy projects. The platform facilitates the entire installation process and simplifies the transmission, processing and management of energy projects.

Its customers include companies throughout Germany and Austria, owners of large roof areas, real estate operators and specialist partners who want to implement energy projects in the commercial and industrial (C&I) segment.

Find out more at: [www.energypartners.de/en](http://www.energypartners.de/en)



# References

Numerous energy projects for companies, municipalities and landowners are testament to our success in the energy industry



## Bundorf solar park

### A flagship project for the energy transition

The Bundorf solar park in Lower Franconia is symbolic of the opportunity to convert our cities and communities to renewable energies across all sectors. The entire Bundorf solar park, which covers approximately 125 hectares, was implemented in accordance with the "Gute Planung" standards of the German Association of Energy Market Innovators, which ensures that solar parks make a positive contribution to climate protection, biodiversity, nature and environmental conservation, and rural development.

- › approx. 125 MW of ground-mounted solar panels
- › of which approx. 38 MW is a citizens' solar park owned by EGIS eG
- › district heating network
- › electric vehicle charging infrastructure in the districts
- › own substation in the neighboring community of Aidhausen/Kerbfeld
- › comprehensive measures to promote biodiversity

Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages



We are committed to the criteria of "Gute Planung" to ensure that solar parks make a positive contribution to climate protection, biodiversity and rural development.



## Further highlights

# Selected projects from the last few years



› **Ground-mounted PV Niederelsungen-Wolfhagen**  
approx. 97 MW



› **Ground-mounted PV Amerdingen**  
approx. 76 MW



› **Ground-mounted PV Darstadt**  
approx. 70 MW



› **Ground-mounted PV Letschin**  
approx. 60 MW



› **Ground-mounted PV Reckertshausen** approx. 10 MW  
incl. battery storage capacity with approx. 7,2 MWh



› **Solarpark Rote Jahne** approx. 6 MW  
incl. battery storage capacity with approx. 4,8 MWh



› **Charging infrastructure Aschau im Chiemgau**  
1 x DC Charging station, 14 x AC Charging station



› **Ladeinfrastruktur Eggenfelden**  
3 x DC Charging station, incl. transformer station





**Become a pioneer!**

Take the first step towards a  
green future and contact us.

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