

**Renewable energies with KSB.  
Energy. Natural. Endless.**



**SOLUTIONS FOR**



**CONCENTRATED SOLAR POWER PLANTS**

**WIND POWER PLANTS**

**HYDRO POWER PLANTS**

**BIOMASS POWER PLANTS**

**BIOGAS PLANTS**

**GEO THERMAL PLANTS**

## **Energy. Natural. Endless.**

One of the greatest challenges of our time is to balance a growing demand for energy with the need for greater environmental protection. KSB supports this development by providing innovative, efficient and durable components for renewable energy applications.

KSB has been in the business of producing pumps and valves for 140 years. Our many years of experience in power plant technology and our extensive investments in research and development enable us to supply optimized hydraulics combined with highly efficient drives for low life cycle costs and top performance. With more than 14,000 KSB employees, over 120 service centers and 29 production sites around the world, we draw on all our strengths to support our customers with safe, efficient and sustainable solutions.

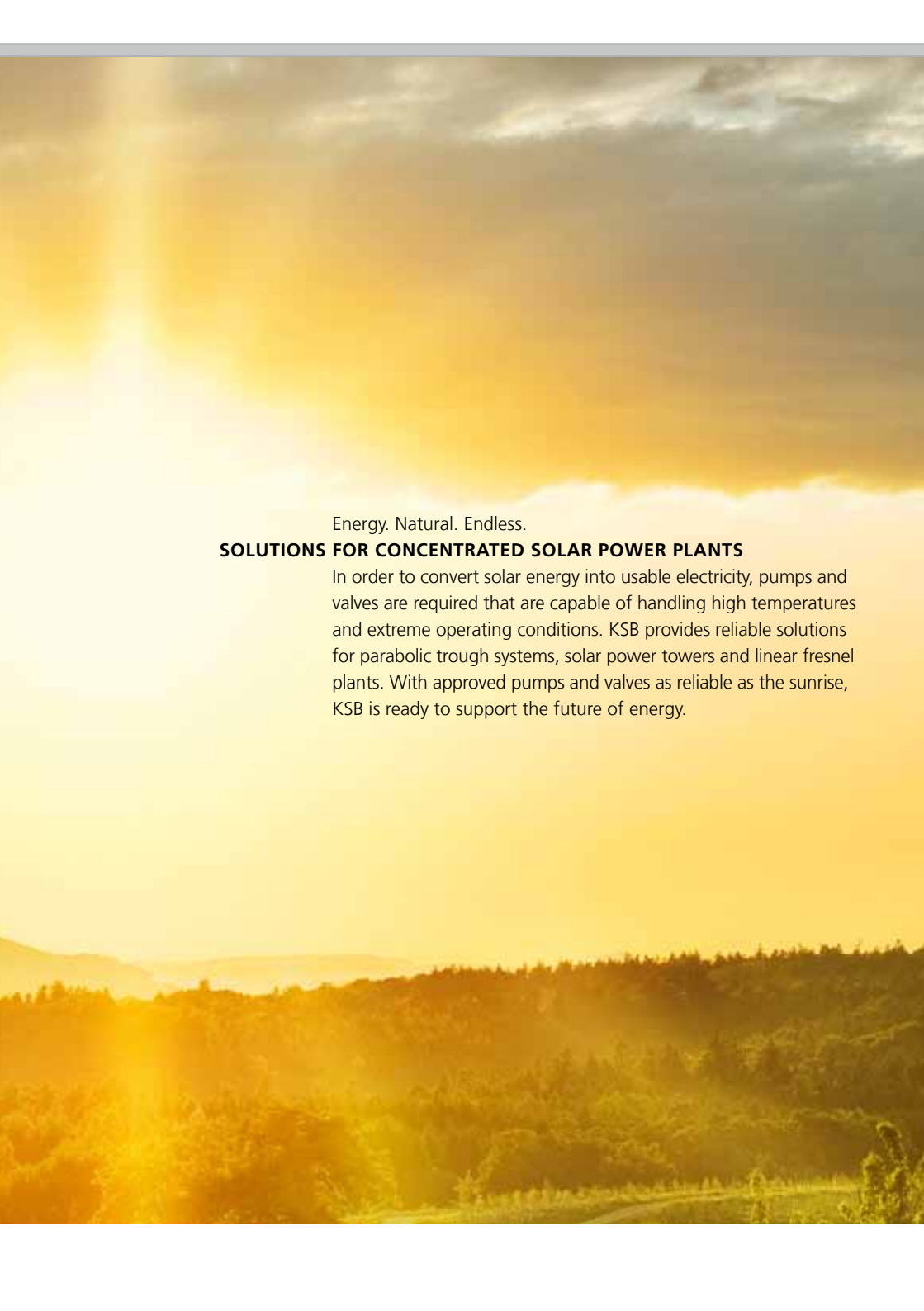
**Generate natural power safely and economically with pumps, valves and systems from KSB.**



YNKR – HTF pump



NORI 40 – Globe valve



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**SOLUTIONS FOR CONCENTRATED SOLAR POWER PLANTS**

In order to convert solar energy into usable electricity, pumps and valves are required that are capable of handling high temperatures and extreme operating conditions. KSB provides reliable solutions for parabolic trough systems, solar power towers and linear fresnel plants. With approved pumps and valves as reliable as the sunrise, KSB is ready to support the future of energy.



Etaseco – Cooling pump



BOAX-B – Butterfly valve





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## **SOLUTIONS FOR WIND POWER PLANTS**

The number of wind power plants is growing constantly. KSB is a reliable partner for both onshore and offshore installations. Onshore, KSB provides quality pumps and valves to cool gearboxes, generators, converters and transformers. Offshore, KSB pumps are additionally used for sea water extraction. In both cases, KSB pumps and valves are implemented in fire fighting systems, as well. KSB furthermore offers a comprehensive range of services for wind power plants. In addition to maintenance and repair in our workshop, our partners also offer these services onsite at your wind park.



River turbine



ISORIA 10 – Butterfly valve



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## **SOLUTIONS FOR HYDRO POWER PLANTS**


Innovative KSB technologies efficiently create energy from the power of water. Our compact hydropower plants produce truly clean energy. Able to produce baseload power, KSB river turbines make major construction and dams obsolete. KSB also produces pumps that can be used as turbines to maximize the full potential of water power, by reducing pressure differences. When water flows back through the pump, the impeller runs in reverse and the pump functions as a turbine. That's KSB – pooling resources to make sustainable energy easier.



HGM – Boiler feed pump



NORI 320 – Globe valve



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## **SOLUTIONS FOR BIOMASS POWER PLANTS**

In order that biomass plants are able to operate economically, the selection of the individual components is very important. KSB has developed a modular design system of proven standard components which provides a flexible basis for matching each product exactly to our customer's requirements – for circulation of boiler feed water, condensate and cooling water in biomass power plants.



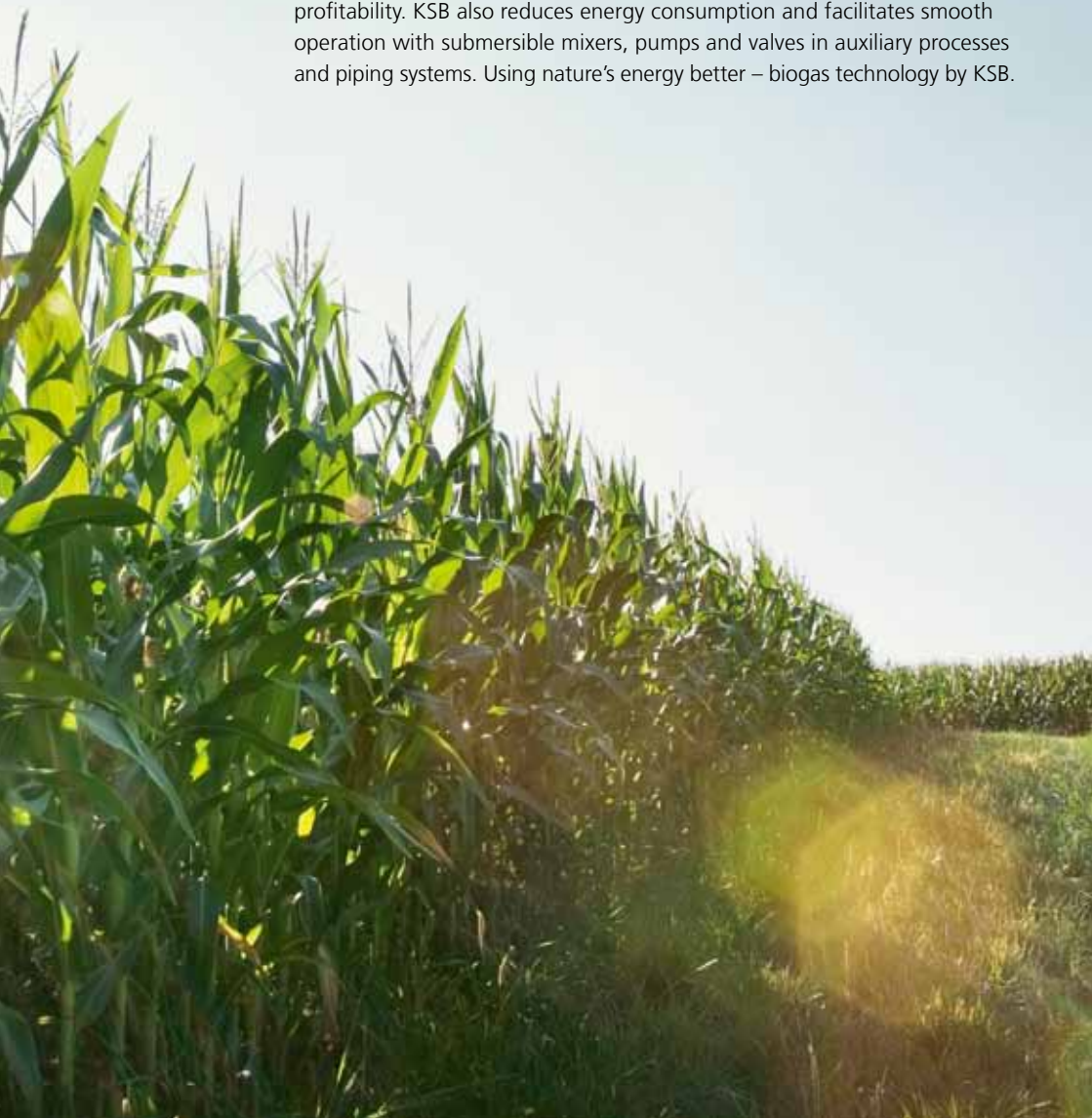
Amaprop – Agitator

HERA BD – Knife gate valve

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## **SOLUTIONS FOR BIOGAS PLANTS**

KSB boosts the energy efficiency of biogas plants with proven technology. Our low-speed submersible mixer ensures a high level of efficiency and plant profitability. KSB also reduces energy consumption and facilitates smooth operation with submersible mixers, pumps and valves in auxiliary processes and piping systems. Using nature's energy better – biogas technology by KSB.





Multitec – Injection pump



ECOLINE SC – Check valve

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## **SOLUTIONS FOR GEOTHERMAL PLANTS**

Geothermal energy is becoming more and more interesting as an energy source. Whether in thermal water circuits, steam circuits or district heating systems, KSB plays a key role in plant efficiency – with pumps, valves, drives and automation products that ensure safe and productive power plant operation. Reliable KSB products are already working, for circulation in cooling water and steam circuits, as well as for the re-injection of thermal water into the ground.



Your local KSB representative:



**Contact:**

Torsten Gabelmann  
torsten.gabelmann@ksb.com

More space for solutions.



**KSB Aktiengesellschaft**  
Johann-Klein-Straße 9  
67227 Frankenthal (Germany)  
[www.ksb.com](http://www.ksb.com)