

## BMZ GROUP

YOUR PARTNER IN LITHIUM-ION  
BATTERY TECHNOLOGY



E-MOBILITY



DRIVE  
SYSTEMS



ENERGY STORAGE  
SYSTEMS



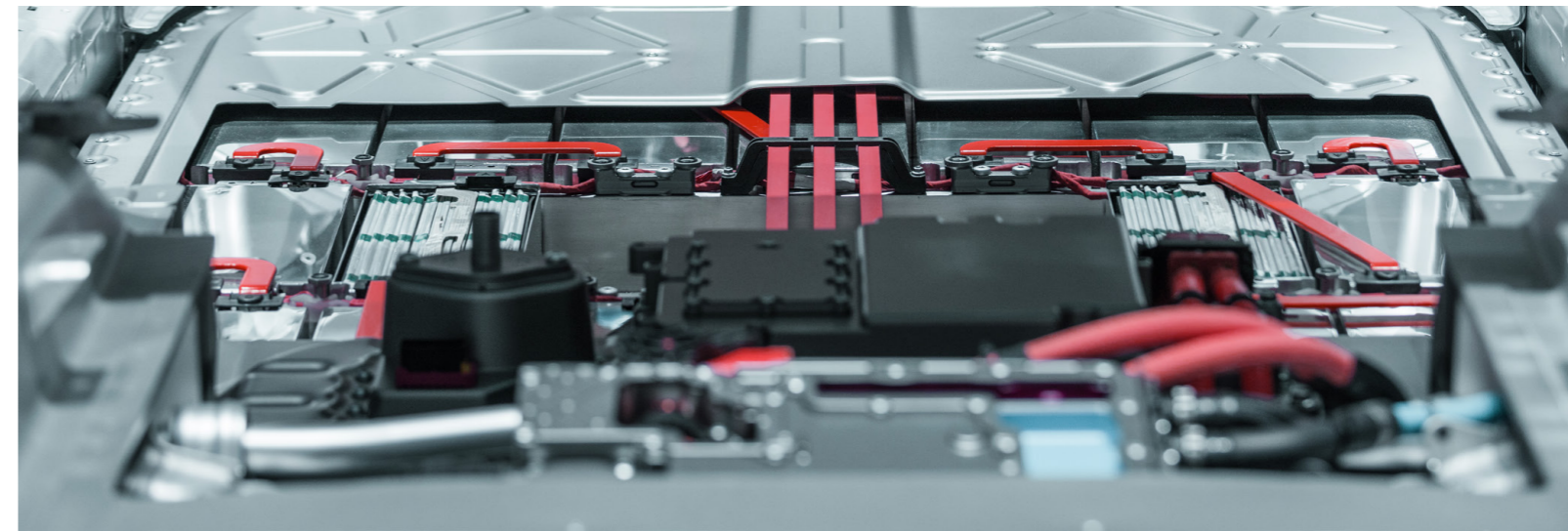
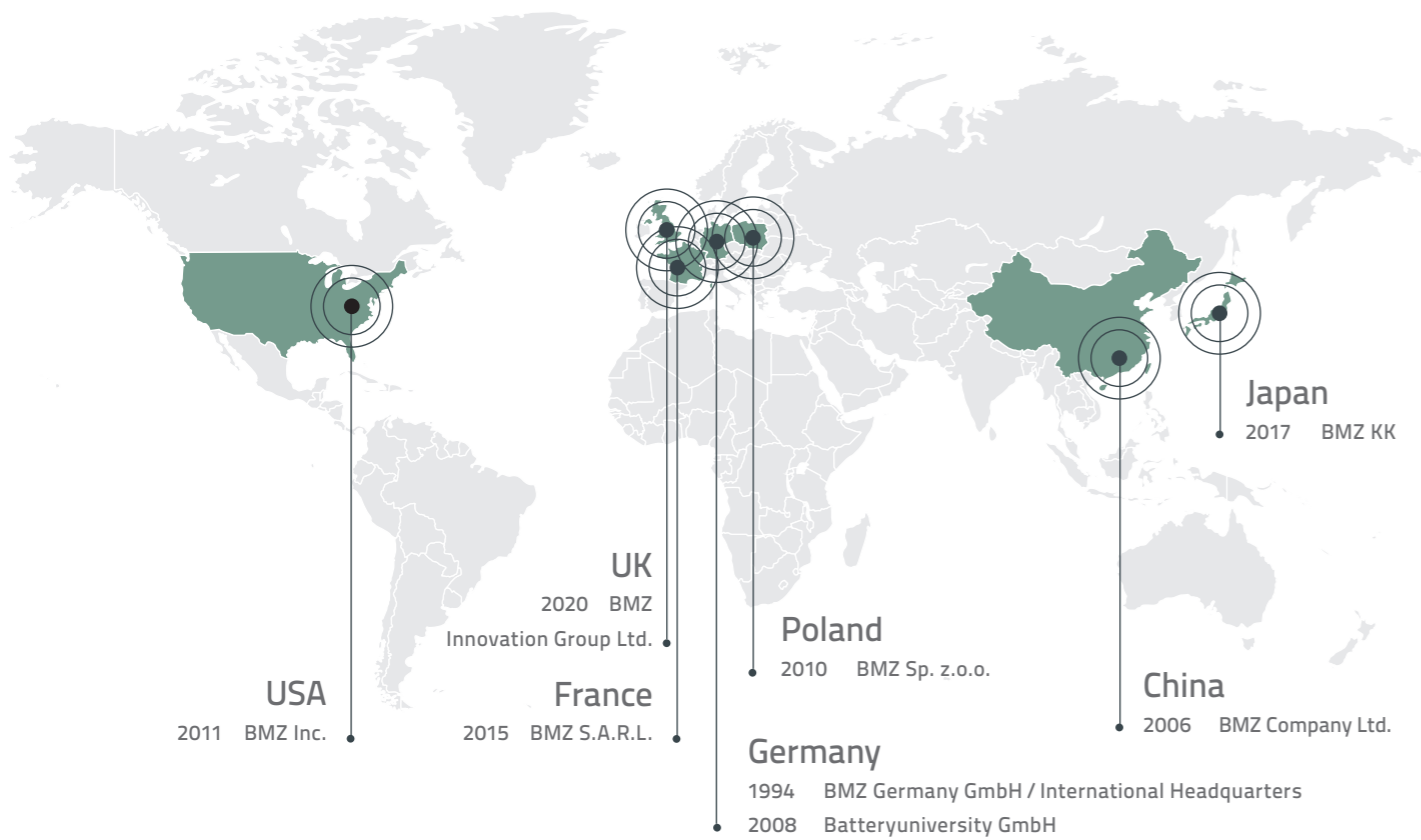
POWER- AND  
GARDENTOOLS



INDUSTRIAL



MEDICAL



## ABOUT BMZ Group

BMZ Group is a global player and Europe's leading manufacturer of lithium-ion battery system solutions. BMZ develops and produces high-tech battery systems for electric light vehicles, commercial vehicles, energy storage, e-bikes, medical and industrial applications as well as power and garden tools, which are installed in a wide variety of products of well-known brands worldwide. In addition to OEM

products, BMZ also manufactures battery systems under its own brands. The group has its headquarters in Germany and production facilities in China, Poland and the USA as well as branches in Japan, the UK and France. In addition, research & development locations have been established worldwide. BMZ has 25 years of experience, more than 2,000 customers and realizes about 250 new projects per year.

## Lithium-Ion Accumulators are Currently the Essence of Storage Technology.

Although this battery technology is already considered an outstanding innovation in the field, even more far-reaching developments are conceivable and possible. It has the highest energy density with comparatively low weight. The efficiency of lithium-ion batteries is high - with a long service life and no memory effect. The supremacy of the lithium accumulator is also due to the fact that it stores three times more energy per unit of weight today than it did 25 years ago,

and at the same time costs significantly less. The price per kilowatt hour has fallen significantly in recent years.

Energy density has also increased steadily in recent years, making longer ranges for electric cars possible. Whereas an electric vehicle had a range of 150 km 5 years ago, today it is possible to cover 500 km on a single charge. The increase in performance per unit of weight should not be achieved at the expense of volume. The simultaneous increase in volumetric power and energy density is therefore a challenge for accumulator technology.

Batteries are subject to the highest safety and certification standards in order to obtain approval. Attention is paid to the respective conditions of use of the batteries - a battery in the automotive sector is subject to a more differentiated use than a battery in the power and garden tool sector.

### Company data:

>1,800 employees worldwide

250 projects per year

Worldwide development centers

Innovative and manufacturer-independent production sites

76,000 sqm  
in Poland

50,000 sqm  
in China

75,000 sqm  
in Germany

10,000 sqm  
in USA



# SEGMENTS & Products

## TIER ONE SUPPLIER FOR HIGH-TECH BATTERY SYSTEMS

As a tier-one supplier, BMZ Group produces lithium-ion battery systems for all market segments and products that require battery operation. Regardless of the size and complexity of the systems, BMZ is the expert in batteries with very high power output and capacity - High Power and High Energy batteries - which ensure a continuous supply of energy. They are found in applications such as energy storage systems, e-bikes, electric-powered buses, boats, forklifts, sweepers, industrial trucks, aerospace applications,

power and garden tools, and medical devices. The one-stop-shop offer means that hardware and software are perfectly matched. BMZ develops, documents and designs components as well as entire systems - customer-specific - precisely aligned to the operating conditions of the application and the requirements of the customer. Thus, taking into account the necessary protection classes for, i.e. waterproof or particularly shock- and resistance-proof battery systems, is no major challenge.

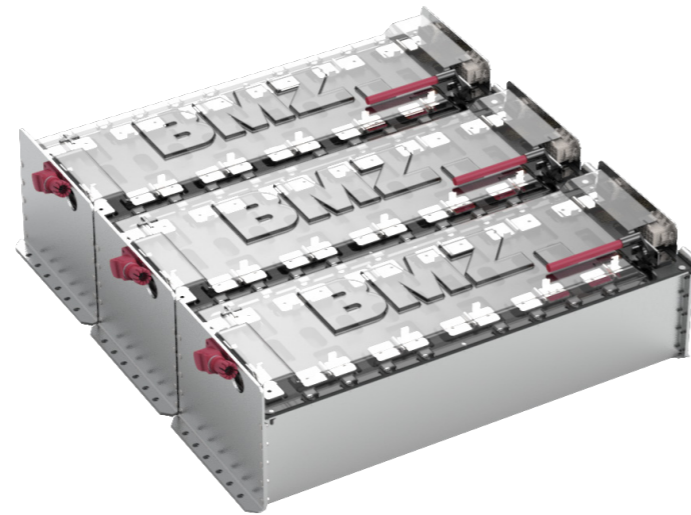
# STANDARDIZED DESIGN. INDIVIDUAL IMPLEMENTATION IN APPLICATIONS.



# MODULAR Standards

Battery systems are becoming ever larger and more complex in times of electromobility and the desire for self-sufficiency from the public power grid. The demands on the energy storage system are also increasing due to the ever more individual purposes of use.

The BMZ Group builds the majority of its innovative battery systems on a modular basis, thus achieving maximum flexibility. Modules can be interconnected across projects and segments according to the modular principle to form an integrated battery. Here, despite the development of a new battery for a project, one falls back on existing technologies of the module and builds on empirical values with the already tested technology.



Through an individually adapted battery management system, the behavior of the battery can be influenced and controlled. An identically battery module can thus be used in the automotive sector but also in the storage sector. This modularization significantly shortens the development process and considerably reduces the financial and time risks in the start-up phase.

BMZ thus provides its customers with a much faster 'go to market' option and less effort for product updates. One advantage of modularization is the subsequent expansion function of the systems. If additional capacities are required in the future, further modules can be implemented quite easily. This not only makes the FACP systems plug & play capable, but also allows defective or underperforming modules to be replaced with less effort.

BMZ is also applying this positive experience across all industries in smaller applications, such as e-bike batteries. Especially in the e-bike industry, where new components and models come to market every year, modularization makes sense due to very short development times. In project planning, much less time is given to the development phase.

>> The introduction of personal standards is also possible and the certification of the battery goes through faster and cheaper - a partial certification is historically already frequently available. Furthermore, modularity optimizes the production process, there is less waste and the quality of the systems increases significantly. <<



## Central SERVICE

BMZ represents the highest level of sustainability with innovative, particularly high-quality products and after-sales service.

### Our Service Promise:

- > **Europe-wide Network**  
with International Hotline
- > **Spare Parts Supply**  
within 24 Hours
- > **48 Hours**  
Mobility Guarantee
- > **Cost-Efficient and Customer-Oriented**  
Service processes
- > **Distributor Training**  
and Support

However, good products alone are not enough to satisfy the customer over the complete service life of his product. That is why we offer competent and friendly service along the entire value chain.

Only highly trained technicians and specialists with many years of experience in this repair segment work in our fully equipped service center. The spare parts installed are without exception original components that are carefully checked again before installation.

### RECYCLING

BMZ Group offers the unique service of a comprehensive take-back and recycling service for lithium-ion batteries in every EU member state. The advantage for BMZ Group customers worldwide is that you get all relevant services for your business from one source.



# Any questions?

Contact us, we will be pleased to advise you.



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