



Battery Service – Energy Solutions

For Motive Power and Network Power Applications

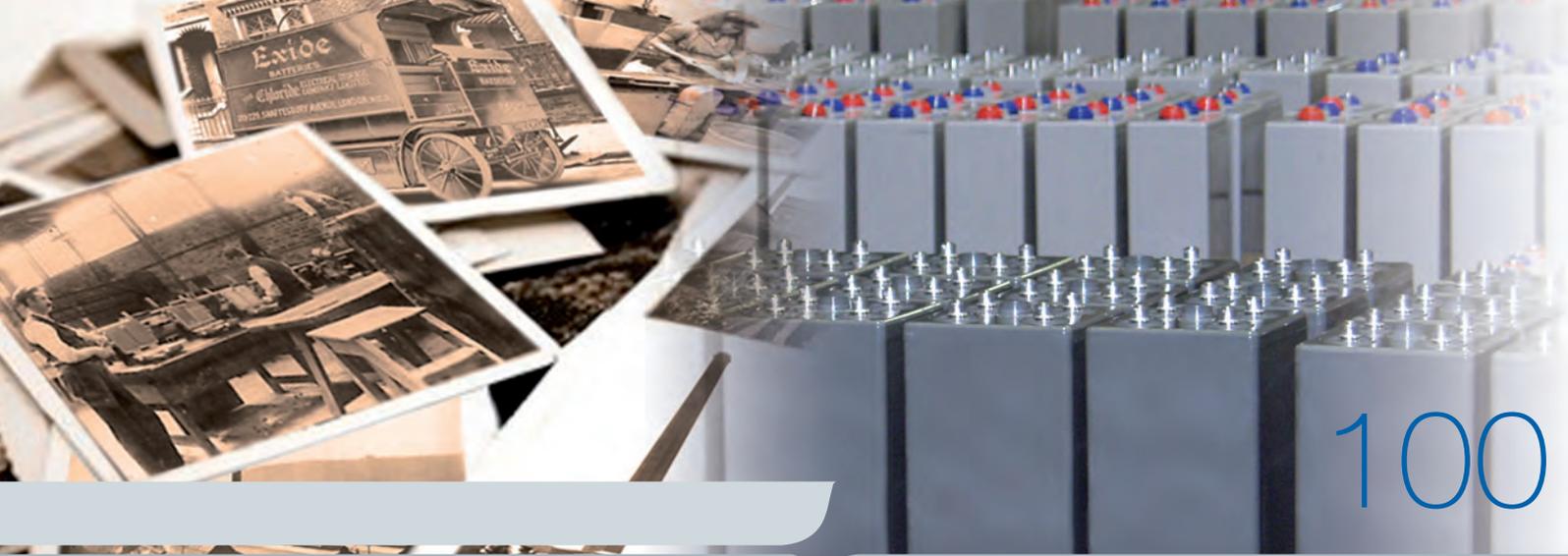
Inspection

Maintenance

Lifetime Warranty

Installation

Full Service



Battery Service – Energy Solutions

Keeping your Business in Motion



Professional Treatment of Batteries and Chargers

Batteries, chargers and the whole energy system are expensive investment assets. However, these are very sensitive assets that don't easily forgive mistreatment, lack of maintenance and un-professional repair attempts.

GNB has therefore developed extensive documentation available to anybody. European and national safety regulations and environmental protection laws must also be considered during the handling, application and servicing of batteries, chargers and other components of the total energy system.

Professional treatment of batteries and chargers leads to improved capacity, extended lifetime and higher system availability.

Regular service therefore pays off, freeing up capital, reducing operating costs and resulting in safer, more efficient operation.

GNB® is the Expert

Who could do this job better than the professionals of a company with more than 100 years of experience in battery development, production and application?

Leave the responsibility for the maintenance of your batteries and chargers to the professionals: a GNB service contract provides you with exceptional economic advantages through time savings, cost savings and safety!



Largest Service Organization in Europe

Years of Experience

Battery Service – Energy Solutions

Professional Service – all over Europe

Whatever your Application – GNB[®] has the Experience

For decades, GNB has been supporting a wide array of Motive Power applications, ranging from cleaning machines to material handling and from single forklift operations to huge logistic hubs. In Network Power we serve everything ranging from small UPS installations to giant power plants.



Wherever you are – GNB[®] is there

With more than 280 people in our service organization, we possess the most extensive service network of all manufacturers in Europe. Our professionals are regularly trained on batteries, chargers, battery monitoring and management tools. Short distances to our customers guarantee fast response times in emergencies.



GNB[®] does not limit Service to GNB[®] Products

GNB services can be extended to include the products of other manufacturers – from batteries and chargers through to other accessories.

GNB[®] offers complete Service for Energy Solutions

GNB's complete energy solutions experience offers service and consulting on charger room equipment, design and ventilation. GNB also provides consultation on total energy turnkey solutions in partnership with leading experts.



Battery Service – Energy Solutions

Service tailored to your Needs – as individualized as your Requirements

Regular inspections and maintenance are an essential requirement for maximizing the service life of the product and conforming to safety regulations.

GNB's service portfolio includes everything necessary to keep the total Energy Solution in the best shape.

Depending on the customer requirements, GNB offers total flexibility in combining individual service items as well as a choice of GNB service packs:

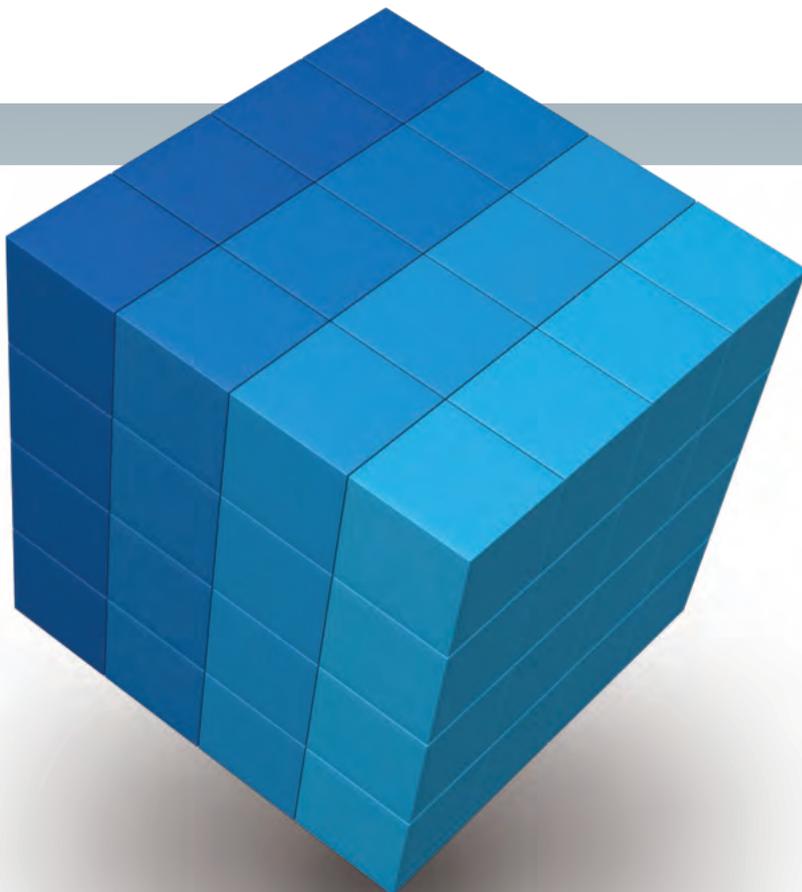
Description of the Service Portfolio:

GNB Service Packs:

- > Inspection contracts
- > Maintenance contracts
- > Lifetime warranty contracts
- > Full service contracts

Professional Service Solutions:

- > Battery and charger repair
- > Installation of batteries and systems for Network Power
- > Complementary services, e.g. training, consultancy, testing and a wide range of additional accessories



**»GNB Service –
individualized, professional
and all over Europe!«**

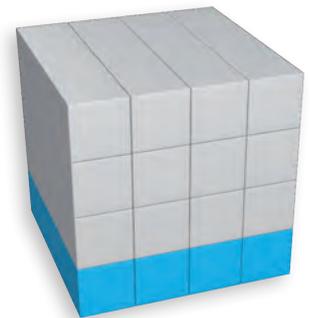
Battery Service – Energy Solutions

Select one of our four GNB[®] Service Packs



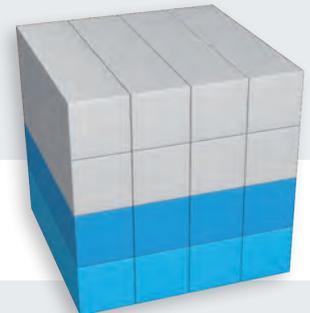
Inspection Contract

- > Measurement of total battery and cell voltage
- > Measurement of electrolyte level and density
- > Measurement of battery temperature
- > Checking the battery water refilling system with respect to seals, water flow and functional test
- > Check of tray, battery surface, connectors, end cables and device plugs
- > Air agitation – visual and functional check
- > Assessment of overall condition
- > Drawing up an inspection report
- > Safety check according to legal regulations on batteries and chargers
- > Test of charger function and device settings



Maintenance Contract

- > Topping up to specified level with purified water manually or with installed water refilling system
- > Cleaning and drying of battery surfaces



Lifetime Warranty Contract

Inspection contract in combination with extended warranty period

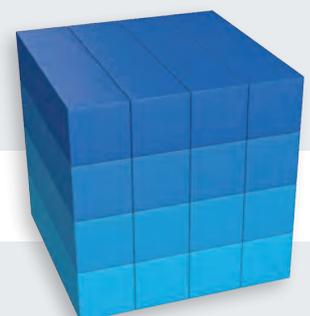
- > GNB will guarantee the operating performance of the equipment for the period of the extended warranty.



Full Service Contract

Combination of Inspection, Maintenance and Lifetime Warranty Contract

- > Concentrate on your job. GNB will concentrate on your batteries and chargers. Whatever your application – GNB has the experience.



Battery Service – Energy Solutions

Professional Service Solutions

GNB offers the following services in addition to our four GNB service packs:

Battery and Charger Repair

- > In case of an emergency, GNB will be at your service at all times.
- > The expertise and knowledge of our service technicians, in combination with fast or immediate spare part availability, ensures minimal operational downtimes.



Installation of Batteries and Systems for Network Power

- > Development of complete turnkey solutions from the design concept to installation and commissioning.
- > Installation according to legal and safety regulations including CE certification by approved installation technicians.
- > Training and certification of external installation technicians according to CE regulations.



Complementary Services

Training

We provide user seminars on:

- > Products & handling
- > Maintenance
- > Safety requirements

Consultancy

- > Selection of optimized products in accordance with the application
- > Installation of monitoring and management solutions
- > Analysis of existing usage data to improve operational efficiency and reduce energy costs
- > Charger room design, battery exchange systems and water treatment
- > Electrolyte and water analysis

Testing

- > Capacity and performance testing
- > Breakdown analysis

Provision and Installation of Accessories

- > Air agitation systems
- > Water filling systems
- > Water deionisation systems
- > Battery monitoring units
- > Battery management system
- > Health & safety kits
- > Ancillary components



Battery Service – Energy Solutions

Environmentally friendly

The processing of lead is subject to strict international regulations. The strictest are in force in those countries where GNB has production sites. We are not put off by this challenge, instead viewing it as both an incentive and an obligation. By introducing our local management systems, which are overseen by our global environmental and workplace protection organization, we have not only committed ourselves to permanent improvement – we also have the corresponding success at the regional and global level to prove it. Key terms such as sustainable development and conservation of resources do not represent a challenge to us – they are an every-day part of our practices in the production, application, service and recycling of our products.

The return and recycling of lead batteries is traditionally based on close and trustful collaborations with our customers and recycling partners.

Certified in accordance with
DIN EN ISO 9001, 14001,
OHSAS 18001.



Recycling

The recycling of the components is an integral part of a lead-acid battery's life-cycle. Exide Technologies is not only the market-leader in lead-acid batteries, but also one of the world's leading producers of secondary lead. All the components of a lead battery can be recycled. Exide Technologies has ten recycling sites world-wide: 6 in the USA, 3 in Europe, and 1 in New Zealand.



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