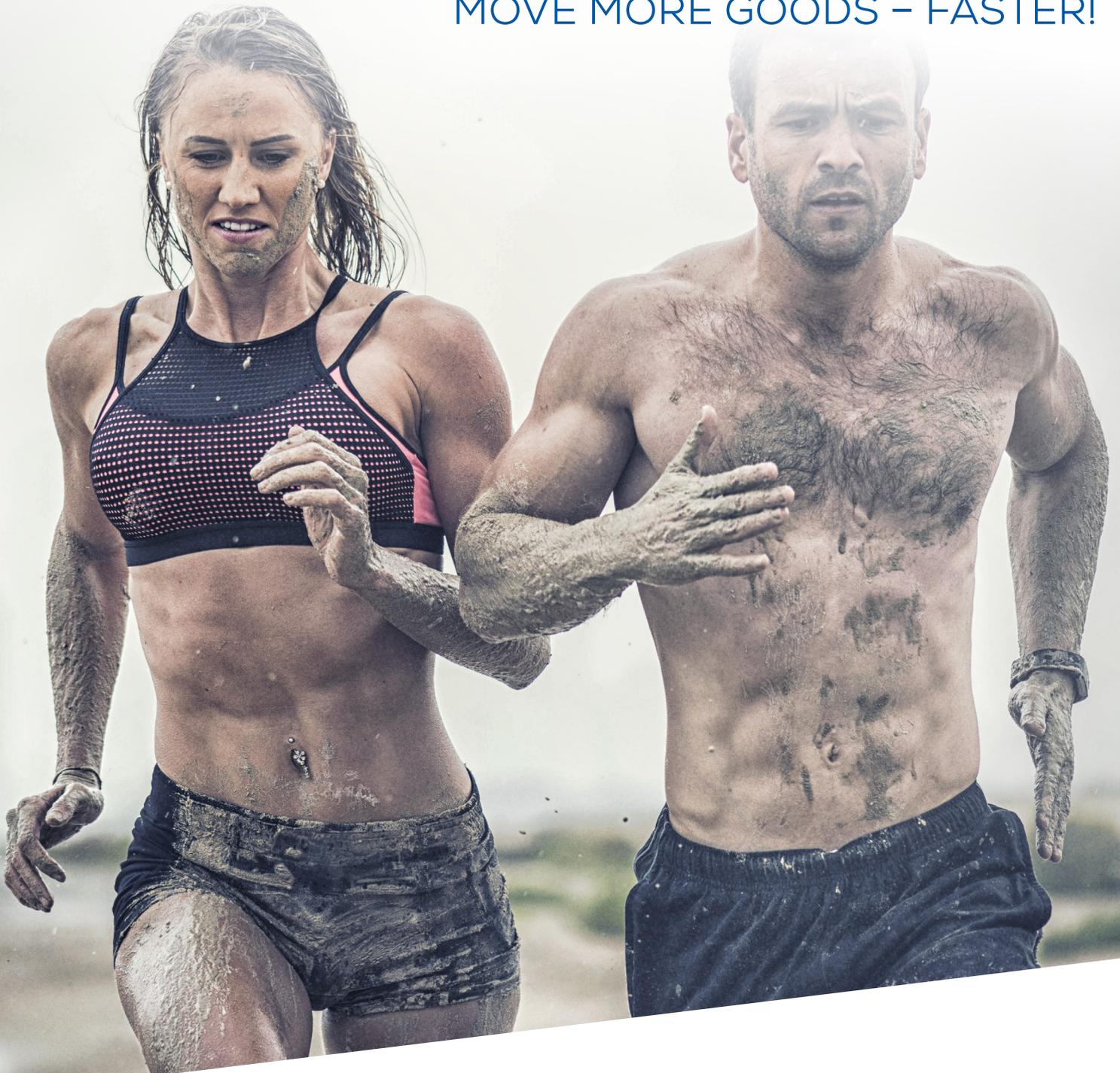


# SONNENSCH EIN LITHIUM

MOVE MORE GOODS – FASTER!

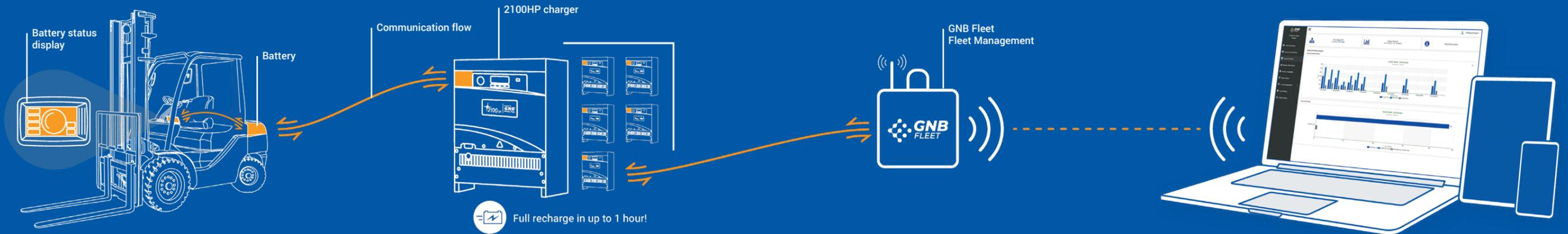


# SONNENSCHN LITHIUM MORE THAN JUST A BATTERY

## Empower your business at every level, from single batteries to entire fleets

GNB offers complete one-stop energy-storage solutions, from batteries and chargers to intelligent fleet management systems. Our Sonnenschein Lithium Material Handling Batteries come with an integrated monitoring system that summarizes all relevant data in automatic executive reports. A traffic-light system allows potential problems to be quickly identified and corrected, saving users money and significantly increasing uptime of vehicles and batteries.

Your investment is further protected by deep discharge protection and state-of-charge reporting, helping you achieve the lowest total cost of ownership.



# GNB FLEET THE NEXT LEVEL OF SITE MANAGEMENT

GNB Fleet means maximum fleet uptime. Whether you have lead acid or lithium-ion batteries, one site or many, our smart connected chargers provide GNB Fleet with vital battery information. Traffic-light-based reports help you optimize productivity and energy consumption. Our next generation of fleet management detects issues with batteries or chargers well before your business is affected. Why wait until it's too late and a battery or charger has reached the end of its life? Let your equipment alert you, and avoid the delays caused by vehicle downtime.

Once your batteries are IoT-connected, they may request a service on themselves or even order spare parts directly. This keeps your intralogistics running at all times. Alternatively, site and shift managers may receive e-mail alerts, enabling preventive servicing and other countermeasures. Using our optional remote access allows you to minimize downtime and maximize efficiency. With this option, our application experts conveniently optimize the site for you.



## Charger and battery from one manufacturer are matched to perfection

Our chargers are specially designed for GNB batteries and are GNB Fleet ready. We know that space is money in your warehouse, so we provide highly efficient charging at the lowest energy costs with the highest power and smallest footprint. Our "largest, smallest charger" in the market offers 24% more power per cubic meter than any other system. Space-saving, back-to-back installation leaves valuable room for your business. The perfectly matched charger and battery support fast and multi-opportunity charging for both lead acid and lithium-ion batteries.

GNB chargers support a full recharge within just 1 hour for Sonnenschein Lithium batteries and 4 hours for our advanced lead acid TENSOR. Businesses can even eliminate battery

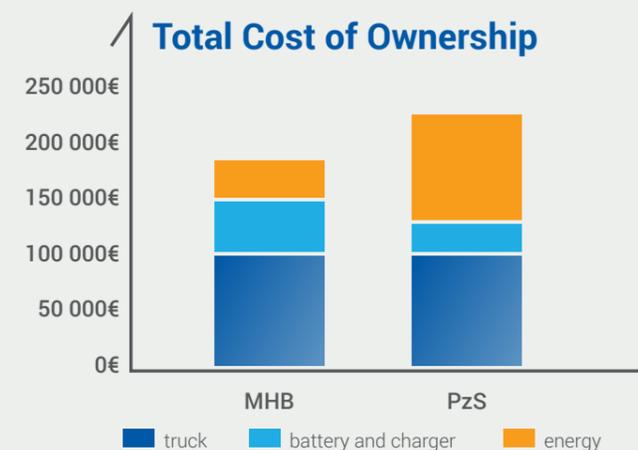
changes entirely by fully leveraging GNB's multi-opportunity charging capabilities.

Our weatherproof and dustproof chargers may be installed at the point of use, saving valuable time spent driving to a central, remote charging station – generating up to 25 extra days of annual uptime for an average fleet. Your operators will also benefit from the user-friendly display and multi-language options.



## Our solution – Easy for you, easy for your operator

Sonnenschein Lithium has a reputation for robust real-world performance. Our advanced Sonnenschein Material Handling Battery continues Exide's achievement of the lowest total cost of ownership and the fastest retrofitting of lead acid systems. Switching from lead acid to lithium may yield up to 1Mio. € savings for an average-sized fleet over the lifetime of a battery. There is no need for additional displays in your vehicle – GNB's energy storage solutions use the existing state-of-charge indicator. Our optional universal retrofitting communicator, installed conveniently and securely within the battery, transfers all relevant information through the truck's display.



### Operational savings

- Up to 45k€ savings per vehicle over battery lifetime
- 25 vehicles = 1,125,000€ savings for average fleet



## SPACE & PROCESS SAVINGS = COST SAVING

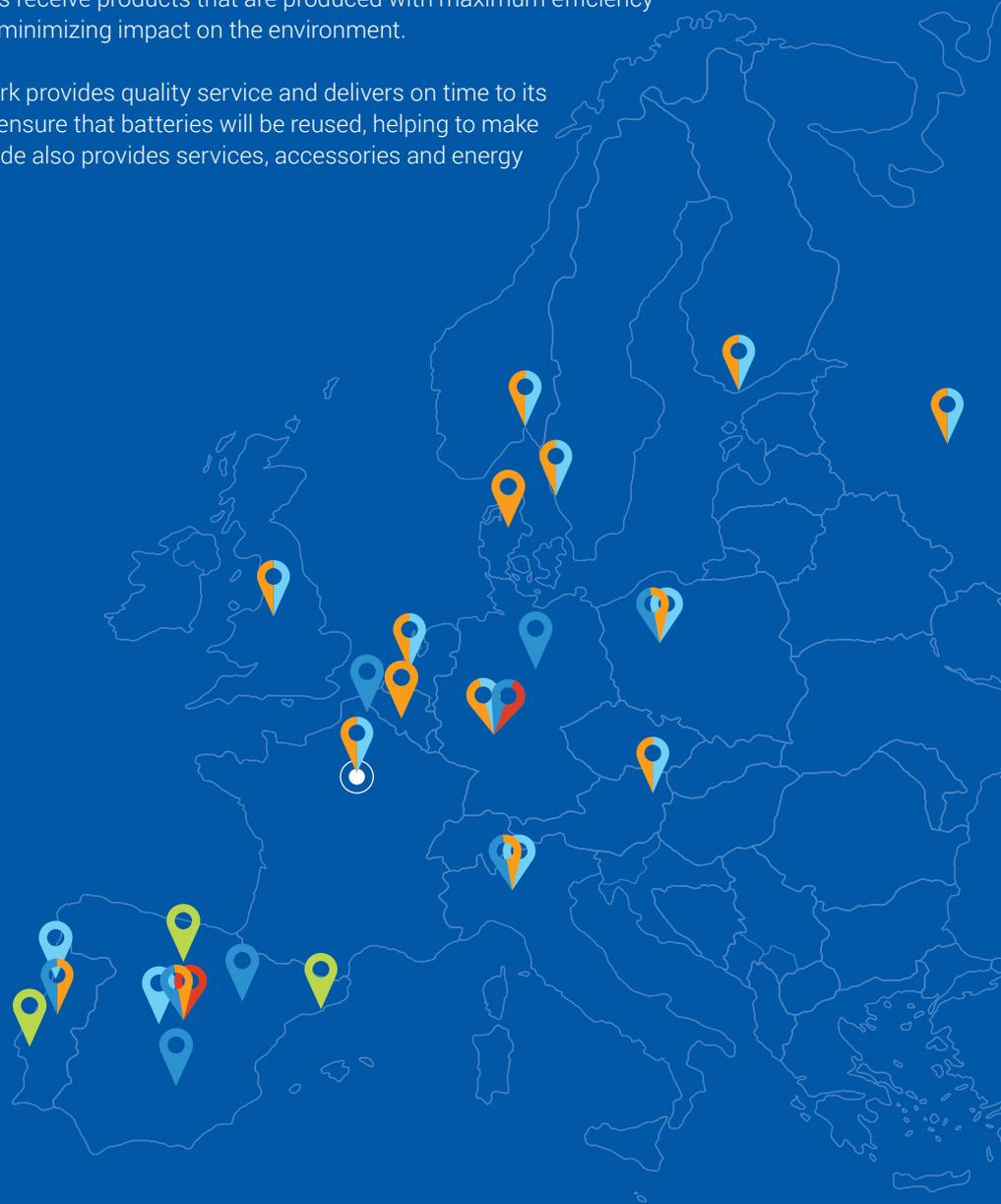


**Exide Technologies**, with operations in more than 80 countries and more than 130 years of experience, is one of the world's largest producers and recyclers of lead-acid batteries. The company develops state-of-the-art energy storage solutions for the automotive and industrial market. Leading car, truck and lift truck manufacturers trust in Exide Technologies as an original equipment supplier. Exide also serves the aftermarket through a portfolio of successful and well-known brands.

Exide Transportation manufactures batteries for light and commercial vehicles, as well as agricultural and marine leisure applications. Industrial markets – under the division **GNB Industrial Power** – include efficient energy storage solutions for motive power applications such as lift trucks, cleaning machines and other commercial electrical vehicles, and network power applications such as telecommunications systems, renewables, and uninterruptible power supply (UPS).

Exide's engineers have always been at the forefront of bringing important innovations to the industry. Exide's ISO/TS-certified manufacturing facilities ensure that customers receive products that are produced with maximum efficiency and fulfill the highest quality standards, while minimizing impact on the environment.

Exide's extensive sales and distribution network provides quality service and delivers on time to its customers. Its world-class recycling facilities ensure that batteries will be reused, helping to make a positive contribution to the environment. Exide also provides services, accessories and energy consulting to its clients.



- ⦿ European headquarter
- Manufacturing plants
- Recycling plants
- Distribution centers
- Main sales offices
- R&D centres

Manufacturing plants ISO 9001 and ISO 14001 certified

Automotive plants IATF 16949 approved