

CATALOGUE

# Ni-Cd Batteries Portfolio



**GAZ ENERGY**

# 140 Years of Excellence

For 140 years GAZ (Geräte- und Akkumulatorenwerk Zwickau), has been specialized in the design, manufacturing and marketing of high-quality Ni-Cd batteries.

Located in Zwickau, Germany, GAZ is a globally recognized company with leading positions in Ni-Cd battery production. GAZ provides critical backup power for companies in many of the world's largest and most critical industries, from oil and gas,

energy and communications to transportation including aerospace and defence and the critical infrastructure.

Working side-by-side with GAZ customers, GAZ develops customized battery solutions that make them more competitive. GAZ solutions combine the state-of-the-art technology process with the knowledge and know-how of highly experienced and talented team of scientists, technologists and engineers.

## GAZ at a Glance

Since 2019, GAZ has been part of Bochemie Group. Bochemie is an electrochemical company that produces a broad range of advanced materials and specialty chemicals.



**75 MIL. AH  
PRODUCTION  
CAPACITY**



**140 YEARS  
OF EXPERIENCE**



**ABOUT  
100 EMPLOYEES**

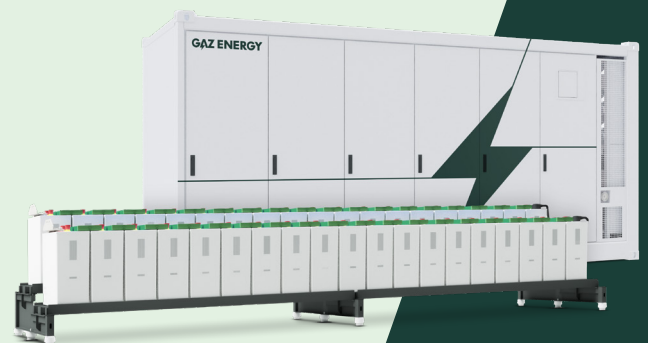


**SINCE 2019  
PART OF BOCHEMIE**

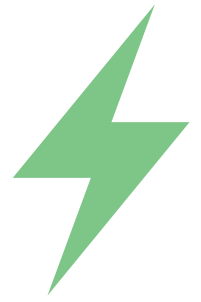
## GAZ Becomes GAZ ENERGY

Over the past year, GAZ has entered a new chapter in its history. Our brand, built on a solid foundation of 140 years of experience with Ni-Cd battery technologies, has now expanded to include large-capacity Li-ion energy storage systems.

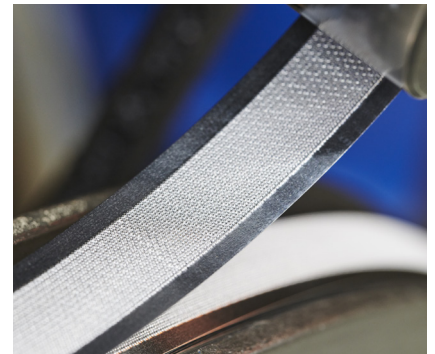
We are responding to the growing market demand for reliable, safe, and locally manufactured solutions for efficient energy storage from renewable sources. This need gave rise to our new brand, GAZ ENERGY – a name that reflects the challenges of modern energy.



# Complete Value Chain From raw Materials to Batteries



Complete value chain of GAZ ENERGY Ni-Cd batteries involves both chemistry as well as high-precision mechanical engineering.



## Typical Applications



UTILITIES



OIL & GAS



UPS



TRANSPORTATION



EMERGENCY LIGHTING



TELECOMMUNICATION



SHIP EQUIPMENT



SECURITY SYSTEMS



RENEWABLE ENERGY STORAGE



POWER START GENERATORS

# Our GAZ Ni-Cd Batteries

- Robust and temperature-resistant
- Abuse-proof design
- Minimal maintenance requirements
- 25+ years lifespan
- 99+ % recyclable



## VENTED Range

**Baseline for all battery applications, designed with the best of Ni-Cd.**

- Enhanced reliability and performance
- Lifetime exceeding 20+ years
- Temperature range -40 °C to +50 °C
- Robust pocket-plate design providing maximum service life



## LOMAIN Range

**Solid reliability with the minimum of routine maintenance. Less is more!**

- Exceptional lifetime of 20+ years in constant operation
- Made for hard to reach environments
- Safety of operation with low-pressure flame arresting vent
- Improved chargeability at high temperatures



Our batteries are widely recognized for their undisputed quality which has always been the core of our philosophy.



## SOL Range

**Designed to store renewable energy.  
Anywhere.**

- Improved design for high-temperature environments
- Excellent charging efficiency at low temperatures
- Increased effectivity of internal gas recombination for extended top-up period
- Long cycle life through improved mechanical & chemical components
- Great resistance to mechanical and electrical stress



## AEROSPACE & DEFENCE

**When safety comes first.**

- Excellent power output
- Exceptional reliability even in emergency conditions
- Stable even at high temperatures
- Long life expectancy
- Very low levels of self-discharge
- Extra low maintenance



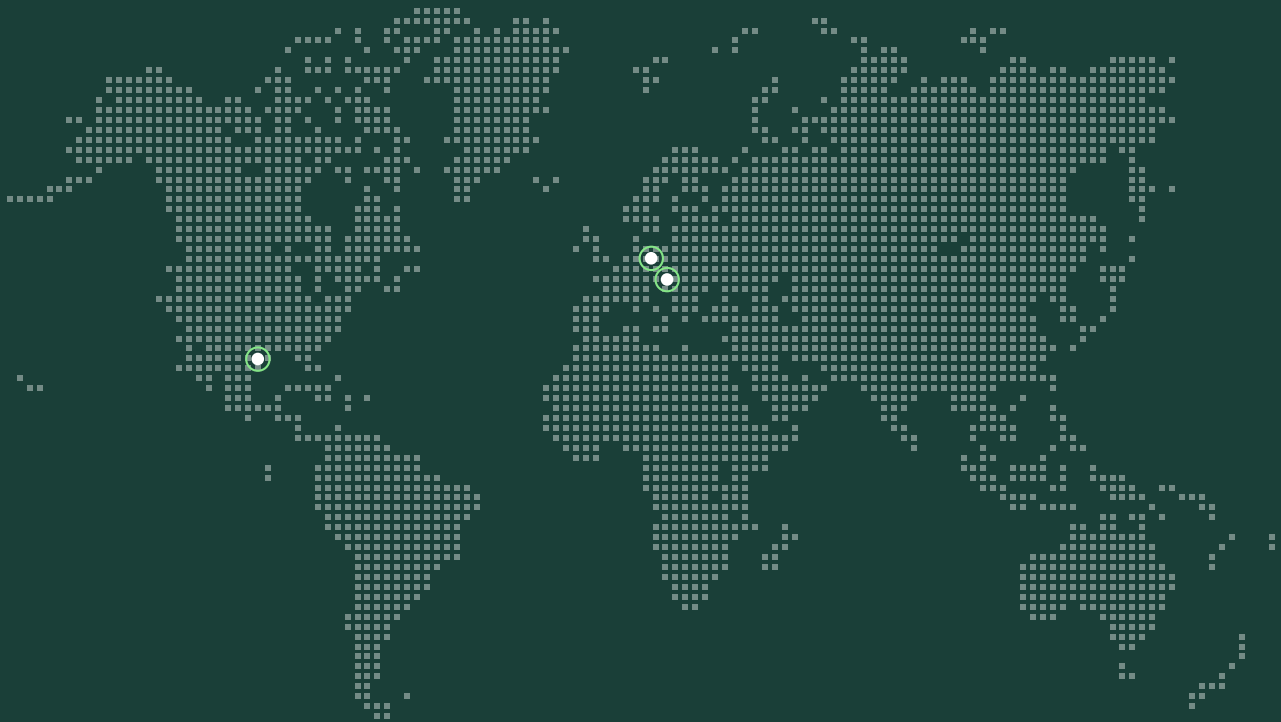
# The Bochemie Group at a Glance

The Bochemie Group is an electrochemical company specializing in advanced specialty chemicals and innovative technologies. Its products embody decades of expertise in developing unique solutions that play an essential role across diverse industries and processes. Applications range from energy storage and wood protection to surface treatment of steel and special alloys, as well as smart textiles.

An integral part of the Group is its subsidiary GAZ ENERGY, dedicated to energy storage and complex energy solutions.

This business unit also includes the German company GAZ Geräte- und Akkumulatorenwerk Zwickau, which develops, manufactures, and supplies nickel-cadmium battery systems used across a wide range of sectors, including oil and gas, energy, transportation, and telecommunications.

With operations in over 120 markets worldwide, Bochemie Group follows a responsible approach to sustainable growth.



**2200+**  
customers



**9 %**  
investment into technology



**120+**  
countries to export



**2**  
manufacturing sites



**500+**  
employees



**30 %**  
reduction of CO<sub>2</sub> emissions

# Our Commitment to the Environment

At GAZ, as one of the leading manufacturer of Ni-Cd batteries for over 140 years, we pay rightful attention to the environmental footprint of our batteries. Proper recycling prevents pollution but also enables the recovery of materials that can be reused. Starting from the optimized design, GAZ ENERGY Ni-Cd batteries are composed of harmonized production elements that make their recycling more efficient and cost-effective without compromising the product performance and design lifetime.

The recycling efficiency reaches nearly 80% of the cell weight, which is higher than the prescribed recycling efficiency of 75% by regulations applicable to Ni-Cd batteries.

All GAZ ENERGY batteries are disposed of with certified long-term partners in compliance to regional regulations. GAZ also provides a recycling testimonial with unique recycling case number for complete traceability.

## Regulatory compliance

- **EU Declaration of Conformity** – GAZ confirms and bear the responsibility of self-declaration of conformity of produced Ni-Cd cells according to recently adopted EU Battery Regulation.
- **RoHS** – Even though accumulators are not within the scope of EU's Restriction of Hazardous Substances (RoHS) regulation, GAZ voluntarily declares that the substances restricted by RoHS are not present in our batteries except for their electrochemical core.
- **REACH** – About EU's Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), GAZ voluntarily declares that our Ni-Cd accumulators contain more than 0.1% w/w of Cadmium (Cd) substances depending on delivery status.



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