NRW.GLOBAL BUSINESS
Trade & Investment Agency

Reshape how we recharge

The Complete Battery Ecosystem in the Heart of Europe

NRW.Global Business GmbH
Trade & Investment Agency
of the German State of
North Rhine-Westphalia (NRW)
Völklinger Straße 4
40219 Düsseldorf, Germany
Phone +49 211130000
E-Mail nrw@nrwglobalbusiness.com
nrwglobalbusiness.com

Foreign offices
China | India | Israel | Japan
Poland | Turkey | UK | USA

Germany is a leader in the research and development of battery technologies. Rheinisches Revier follows a holistic approach for the battery industry: from research to battery production and automotive application to recycling. These are just some of the reasons why Rheinisches Revier is Europe's most exciting investment region.



Battery technology at federal level

Battery technology is a strategic field for Germany's future and is comprehensively promoted at the federal level. The country's commitment extends across the entire value chain – from research and development and industrial production to its application in e-mobility – and is supported by targeted political initiatives.

Research and development

Germany is a leader in the research and development of battery technologies, particularly in the fields of lithium-ion and solid-state batteries. Institutions such as the Fraunhofer Institute and the Helmholtz Association are playing a central role.

Industry

We are home to numerous companies that manufacture batteries or are active in battery research. Examples include BASF, which is conducting battery materials research, and companies such as VARTA and BMZ, which produce batteries for various applications.

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Supported by:
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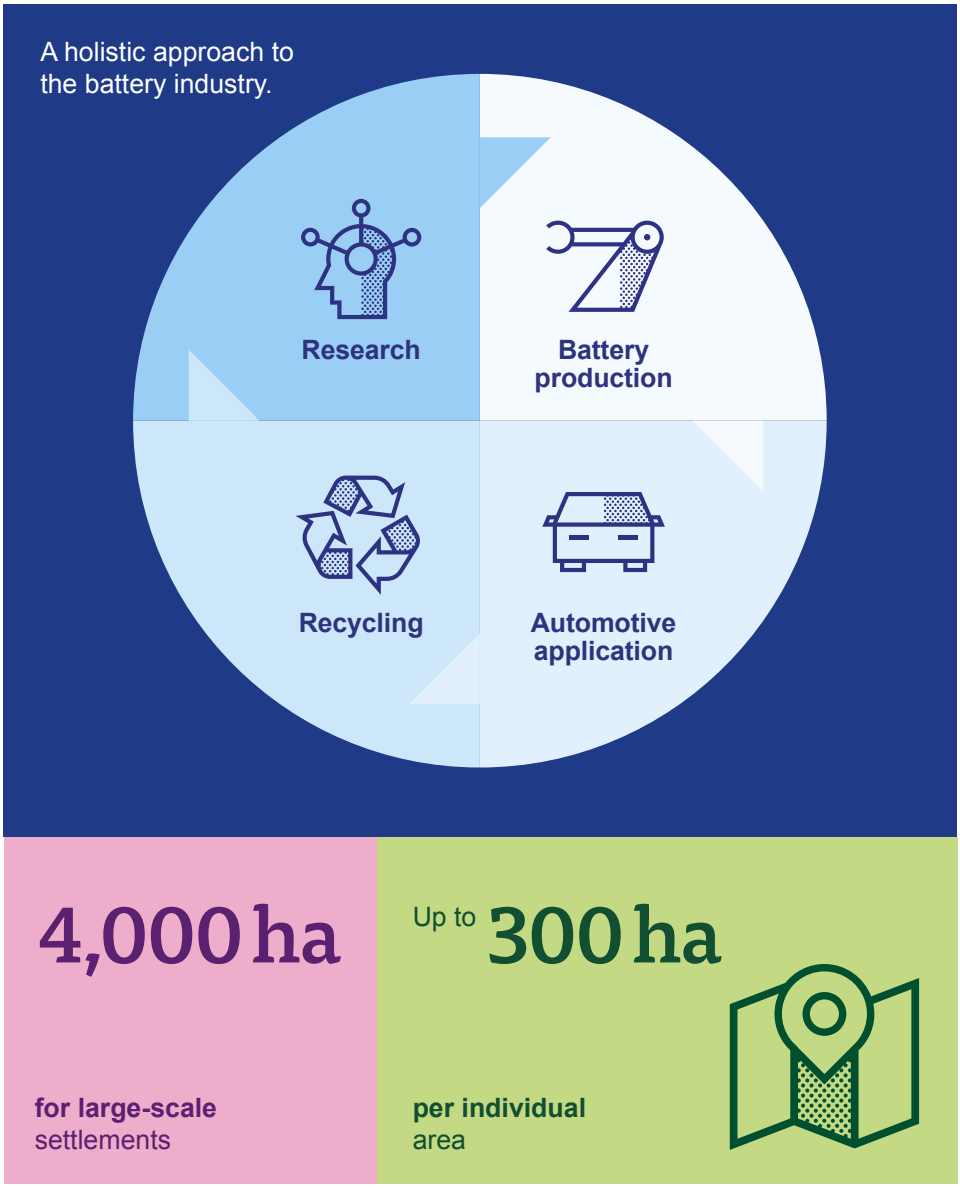
E-mobility

The German automotive industry is investing heavily in the development of battery technologies for electric vehicles (EVs). Companies such as Volkswagen and BMW are working on improving battery performance and lifespan.

Political support

At the federal and state level, the German government supports battery research and production through funding programs and investments. The aim is to strengthen battery production within Germany and build a sustainable circular value chain.



Be part of committed entrepreneurship

Rheinisches Revier has evolved into a premier hub for battery innovation. It is home to a variety of industry leaders and specialized pioneers covering every stage of the value chain, from advanced materials and production technology to AI-driven analytics and circular recycling.

Company	Role in the value chain	Description
4JET Group	**Laser systems, battery & e-mobility tech, industrial automation**	Develops laser systems for surface preparation, cleaning, decoating and battery production.
ACCURE Battery Intelligence GmbH	**Battery analytics, software, diagnostics, cloud services**	Offers predictive analytics software for Li-ion battery fleets, identifying safety and lifetime risks.
Ametek GmbH	**Battery test & formation systems, automation, power electronics**	Supplies electronic instruments, analytical/measurement systems and electromechanical devices for industrial, aerospace and scientific markets.
AMPHERR AG	**Battery systems, e-mobility, energy storage, power electronics**	Supplies Li-ion battery packs (NMC, LFP, LTO) for EV, industrial and grid use.
Clean Lasersysteme GmbH	**Laser-based surface treatment, precision cleaning, green production**	Delivers laser systems for industrial cleaning, decoating and surface preparation.
cylib	**Battery recycling, raw material recovery, circular economy**	Offers water-based full-cycle Li-ion battery recycling with recovery of lithium.
Digatron Power Electronics	**Battery test & formation systems, automation, power electronics**	Develops test, formation and battery system solutions combining power electronics, automation and control.

DSA Daten- und Systemtechnik GmbH	**Automotive electronics, diagnostics, software & systems**	Supplies solutions for vehicle electronics diagnostics, lifecycle data and battery commissioning.
EUROMAT GmbH	**Joining & coating tech, Smart materials, thermal management**	Offers advanced joining and coating solutions for electronics, optics, batteries and sensors.
FEV Group	**E-mobility, battery systems, hydrogen, AI engineering, testing**	Delivers R&D, testing and consulting for e-mobility, batteries, H2, AI and vehicle technology.
Huber Advanced Materials	**Specialty materials, flame retardants, additive manufacturing chemicals**	Develops halogen-free flame retardants, specialty aluminas and thermal-management materials.
MaTecK GmbH	**dvanced materials, crystalline materials, equipment for R&D & manufacturing**	Develops high-purity single crystals, alloys, sputter targets & substrates for research & industry.
PEM Motion	**Battery tech, engineering consulting, compliance & testing**	Offers battery compliance, BMS and testing solutions plus consulting and training.
Safion GmbH	**Battery analytics, cell diagnostics, test equipment**	Provides high-speed EIS systems and software for Li-ion battery diagnostics in R&D, production and QA; revenue from hardware, software and services.
Soteria Europe GmbH	**Battery safety tech, IP licensing, consortium model**	Delivers safety components for Li-ion cells incl. aramid separators and current collectors.
Speira GmbH	**Aluminium rolling & recycling, battery & mobility materials**	Offers recycled and low-carbon aluminium for battery cases, automotive and packaging.

Voltfang	**Battery storage, second-life batteries, energy management**	Develops second-life battery systems for commercial energy storage and grid services.
Waygate Technologies (Baker Hughes Digital Solutions GmbH)	**Non-destructive e-testing, industrial inspection, software & analytics**	Provides industrial inspection hardware and software (CT, X-ray, ultrasound, visual systems) with analytics for quality assurance.

Be part of an inspiring academic environment

The scientific foundations for knowledge transfer and research of cutting-edge battery technology are being laid at globally recognized universities and research institutes across Rheinisches Revier.

RWTH Aachen	
ISEA – Institute for Power Electronics and Electrical Drives	Conducts research on power electronics, control systems, and electric drives, with particular strength in integrating battery systems into power-electronic architectures and designing battery management systems. It also engages in modelling, analytics, and lifetime prediction for energy storage and storage-grid interfacing.
PEM – Production Engineering of E-Mobility Components	Develops, prototypes, and produces battery modules, cells, and related components, with an emphasis on cost reduction, manufacturing scalability, and integration of sustainable processes. It positions itself along the “innovation chain” from research to small-series production and testing.
CARL – Center for Ageing, Reliability and Lifetime Prediction	Focuses on holistic lifetime, ageing, and reliability prediction of electrochemical storage and power electronic systems, from atomic-level processes to full system testing. With specialized infrastructure, it supports long-term testing, environmental stress experiments, and accelerated ageing studies under one roof.

Fraunhofer IPT (Fraunhofer Institute for Production Technology)	Works on the development of scalable, automated, and resource-efficient production systems and machinery – especially for battery cell, module, and pack manufacturing – covering everything from electrode coating, assembly, to testing and re-manufacturing. It partners with the Fraunhofer FFB (Research Battery Cell Factory) to build pilot lines and competence centers that help industrialize novel cell technologies at scale.
Fraunhofer ILT (Fraunhofer Institute for Laser Technology)	Develops advanced laser and photonic processes—such as micro-structuring, additive manufacturing, surface treatment, and beam shaping—and adapts them for high-precision applications in sectors like mobility and energy, including battery component fabrication. Its laser-based techniques (e.g. roll-to-roll laser processing, coating, ablation, welding) can be used to manufacture or functionalize electrode surfaces, interconnectors, or other battery module parts with high throughput and precision.

Be part of a strong network

Rheinisches Revier leverages targeted clustering and networking to link startups, science, and industry and ensure continuous know-how transfer. Central to this ecosystem is *Elektromobilität.NRW*, which actively supports the development of battery technologies and e-mobility across North Rhine-Westphalia. The initiative connects industry, research, and public stakeholders. It drives innovation in battery production, application, and recycling by offering funding advice and support for pilot projects.

Our services for investors

Rheinisches Revier's transformation is a high-priority political project, for which the German federal government and the state of NRW have set aside 14.8 billion EUR. Utilizing the massive tech expertise is pivotal for the region's development, so there is a variety of funding opportunities. NRW's trade agency NRW.Global Business helps investors get the most out of their options – long before and after their settlement.

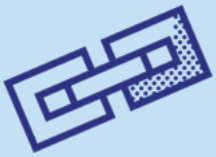
Consulting and planning

Consulting services regarding financial, real estate and networking questions



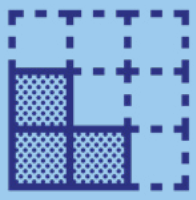
Location selection

Scouting for locations, shaping regional partnerships and support for identifying suitable funding instruments



Growth support after initial setup

Keeping track of companies' development and supporting them with expansion plans



Contact us

THOMAS MARQUART
PROJECT MANAGER
ACQUISITION

+49 211 13000-502
marquart@nrwglobalbusiness.com

TINE SCHRADER
PROJECT COORDINATOR
ACQUISITION

+49 211 13000-504
schrader@nrwglobalbusiness.com