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Energy Saxony Company Profiles

 **NOVUM**

 **Fraunhofer**
IKTS

 **JT Energy Systems**

 **aremtech**

 **PCM ENERGY**

 **AMBARTEC**
HyCS-TECHNOLOGY

 **liofit**

 **thoenes**

 **TRICERA**
energy

 **Saxony**
Trade & Invest

AMBARTEC GMBH

- The technology start-up AMBARtec GmbH from Dresden is planning and developing solutions for compact and long-term energy storage for transport, decentralized reconversion with combined heat and power generation and load management as well as for the mobility of tomorrow based on hydrogen.
- The HyCS[®] storage technology developed by AMBARtec is based on the reduction and oxidation of iron (Fe) and offers the following advantages:
 - Halving the space required for H₂ storage
 - Reduction of the water requirement for H₂ generation during storage loading by > 90%
 - Doubling the efficiency of long-term electricity storage via H₂
 - Use of market-available, cost-effective and sustainable materials

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AMBARTEC
HyCS-TECHNOLOGIE

AREMTECH GMBH

- aremtech GmbH from Leipzig develops and realizes processing and recycling plants for biomass and residual materials for energy production.
 - (Decentralized) provision of electricity, heating and cooling
 - Generation of process heat
 - Production of synthesis gas
 - Reduction of CO₂ emissions
- Reduction of storage, transportation and disposal costs
- Thanks to our strong network, consisting of the German Biomass Research Centre DBFZ, A.H.T. Syngas Technology and the TU Bergakademie Freiberg, among others, aremtech can efficiently implement even extensive projects with you, from planning to realization – including financing options.
- aremtech offers a variety of different financing models for the acquisition and operation of your plant.

Contact

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FRAUNHOFER INSTITUTE FOR CERAMIC TECHNOLOGIES AND SYSTEMS IKTS

- The Fraunhofer Institute for Ceramic Technologies and Systems deals with the entire field of high-performance ceramics, from basic research to application.
- It has been active in the field of high-temperature fuel cell development for over 20 years and is regarded as one of the leading European institutions in this field.
- Fraunhofer IKTS has extensive know-how in the field of materials recovery and recycling management.
- By developing efficient recycling concepts for lithium-ion batteries, it is helping to ensure that energy storage systems are not only technically and economically convincing, but also environmentally friendly and sustainable in terms of production.

Contact

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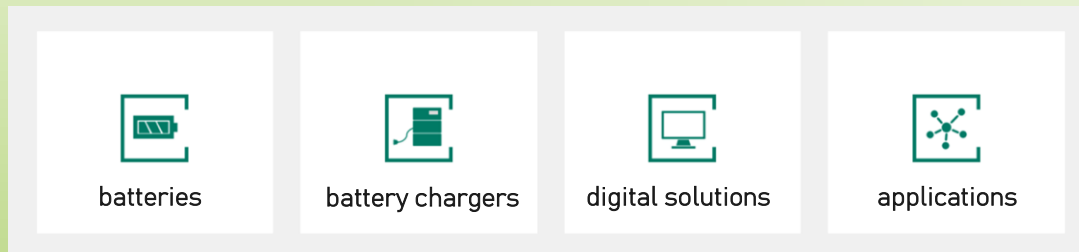
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JT ENERGY SYSTEMS

- Founded in 2019, JT Energy Systems develops and produces energy systems for industrial trucks with industrial applications at its sites in Glauchau and Freiberg.
- The company is currently building a production center for lithium-ion batteries for the intralogistics industry at the Freiberg site. The products include



- The company demonstrates responsibility in its use of raw materials: This is why the energy systems offered are considered beyond their life cycle: from development and production to recycling and ecological utilization.

Contact

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LIOFIT GMBH

- Liofit GmbH in Kamenz has been reconditioning lithium-ion batteries for bicycles since the beginning of 2013. The focus has been on an ecologically sustainable approach right from the start. The company also works on its own batteries, including modern circuit board and protection technology.
- Liofit repairs all types of lithium-ion batteries for eBikes, pedelecs, e-scooters, Segways and other vehicles, regardless of manufacturer. Around 99% of all batteries can be repaired, improved and optimized – including many LiFePo batteries. Cell replacement is possible for almost all batteries, and repair of the control electronics (=BMS) is becoming increasingly common. If a battery cannot be repaired, Liofit will organize the necessary replacement parts or offer you a replacement or new battery at a reasonable price.
- Liofit is funded by the Federal Ministry for Economic Affairs and Energy and the Saxon Ministry for Economic Affairs, Labour and Transport as part of the IPCEI battery cell production programme and will optimize the dismantling of used batteries and further develop the test methods for battery cells in the coming years. The company is also planning a pilot plant in which the mechanical recycling of batteries will be further developed.

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NOVUM ENGINEERING GMBH

- The patented NOVUM technology uses artificial intelligence to determine the condition, residual capacity and residual value of all types of batteries in a matter of seconds.
- AI applications reveal which individual usage scenarios are particularly suitable for a storage system. NOVUM also helps you to make optimum use of the capacity and service life of your systems.
- At the same time, NOVUM contributes to safety in all companies that rely on batteries and battery storage systems. NOVUM technology reliably detects irregularities and risks before problems occur. Failures and overheating don't stand a chance with NOVUM! Areas of application:
 - Stationary test systems
 - Fleet monitoring
 - Battery storage optimization

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PCM ENERGY GMBH

- PCM Energy GmbH develops, produces and sells thermal storage units as latent heat storage systems.
- In technological terms, these are PCM (phase change material) thermal stores. With the production and distribution of the PCM latent heat storage product group in the areas of

- stationary storage
- mobile storage,

standard solutions are available for on-site latent storage tanks, but also for transportation in the temperature ranges 44°C, 58°C and 70°C.

- The development of PCM Energy GmbH includes
 - Market availability of stationary PCM hybrid storage systems up to the temperature range of 70°C
 - Market availability of mobile PCM hybrid storage units up to the temperature range of 58°C
 - Lightweight construction concepts to increase the heat storage capacity

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THOENES® DICHTUNGSTECHNIK GMBH

- thoenes® Dichtungstechnik GmbH is a long-established company that develops and sells innovative sealing, filtration and lightweight solutions for industrial applications.
- In addition to a versatile standard range, the company also offers customized solutions for its customers made of metal, plastic, technical textiles and numerous other materials.
- Core competencies:
 - Seals for many industrial applications
 - Filtration solutions on a polymer basis
 - Lightweight construction solutions in the thermoplastic and thermoset area
 - Research on intelligent seals
 - Research into lightweight construction applications in the construction sector

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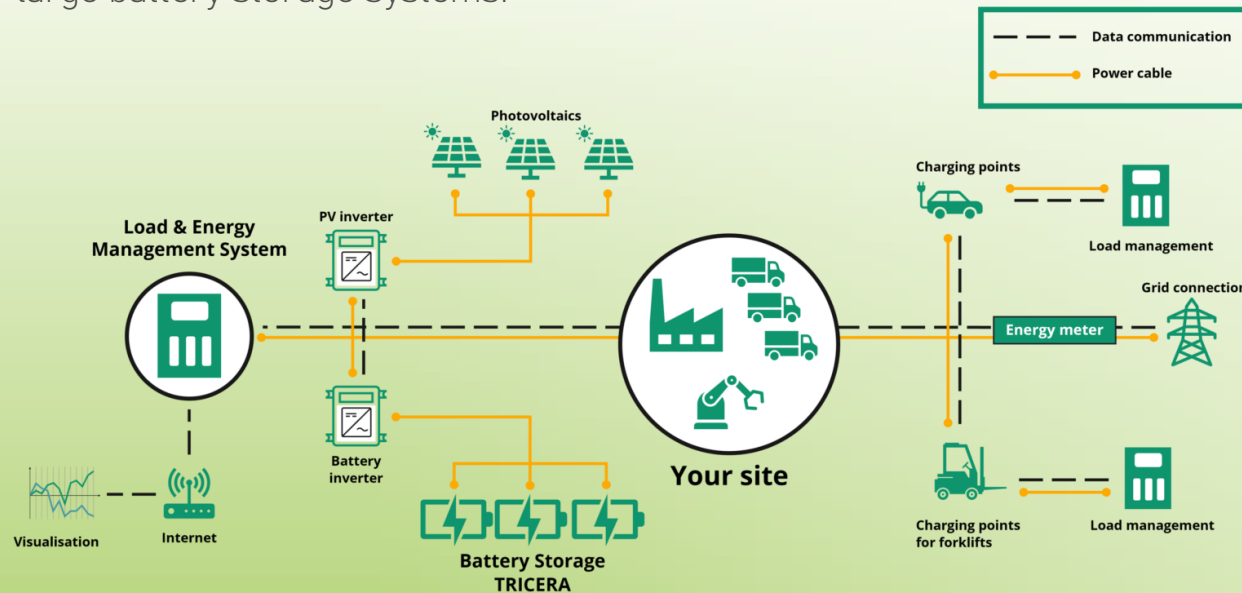
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thoenes®
DICHTUNGSTECHNIK

TRICERA ENERGY GMBH

- TRICERA energy GmbH is a young company based in Freiberg and Dresden that specializes in the development, planning and installation of medium to large battery storage systems.



- Battery storage systems are used to:
 - Peak load capping
 - Self-consumption optimization
 - Self-consumption optimization with electric car charging stations

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TRICERA
energy

WIRTSCHAFTSFÖRDERUNG SACHSEN GMBH

- As a state-owned company of the Free State of Saxony, Wirtschaftsförderung Sachsen GmbH (WFS) promotes Saxony as a business location and provides potential investors with comprehensive advice from the initial idea to the realization of a settlement project.
- The expanded competence atlas "[Energy Innovations from Saxony](#)" by WFS and the Saxon Energy Agency - SAENA GmbH comprises around 170 profiles and provides a comprehensive overview of Saxony's production, research and development activities in the field of energy technologies.
- With the "Sachsen-live" joint stands, the WFS offers Saxon companies a favorable opportunity to present themselves under one roof at international trade fairs.
- It also assists Saxon companies in the realization of expansion investments and research and development projects and supports Saxon companies in their export efforts.
- Targeted cooperation with companies outside Saxony is intended to create new sales opportunities for the Saxon economy and jobs in Saxony.

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 **Saxony
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