



# Western Sahara twice battery analytics platform

What is twice battery analytics platform?

The TWAICE Battery Analytics Platform is a convergence of deep battery knowledge, artificial intelligence (AI), scalable cloud software, and real-life battery data. It creates a single source of truth for how batteries should be effectively developed and operated--simple, low-cost, and high-value.

What is a battery analytics software platform?

Michael Baumann: The product in the end is a battery analytics software platform, which we are building out--it addresses the whole life cycle of batteries, and can be used by different industries. This platform has different solutions, and these solutions can be very specific.

What does twice do with used EV batteries?

TWAICE is also working with TÜV Rheinland (Technical Inspection Association, a network of companies in Germany and Austria that test, inspect and certify technical systems, roughly similar to UL or Intertek) to build a test and certification system for used EV batteries.

A centralized cloud-based analytics platform can provide battery health data in real-time. Data from multiple locations across the globe can be analyzed with powerful AI tools. In this way, dedicated energy storage health analytics software can deliver detailed root-cause analysis and provide more detailed insights into predicted aging behavior.

It has also developed a platform that can simulate the real-world performance of different cells, and can evaluate the state of health of existing battery packs. TWAICE is also working with TÜV Rheinland (Technical Inspection Association, a network of companies in Germany and Austria that test, inspect and certify technical systems, roughly ...

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Battery Software Is The Key to a Sustainable Future. TWAICE founders Stephan Rohr and Michael Baumann introduced the TWAICE Vision Summit 2024.. During their opening keynote "Why battery software is crucial for a sustainable future," they analyzed the role of battery analytics software in improving the sustainability of the growing battery and energy storage ...

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TWAICE Technologies GmbH. Joseph-Dollinger-Bogen 26 80807 München. Phone: +49 (0) 89 997 324 58. Email: contact[at]twaiice Represented by: Dr. Stephan Rohr & Dr. Michael Baumann Register Entry: Court: Amtsgericht München Register Nr.: HRB 241903. VAT-ID: VAT-ID following § 27a DE 319410966 Disclaimer

Description of data processing: The type of data processing differs from platform to platform. Social networks such as Facebook, Instagram, X, etc. can comprehensively analyze user behavior when you visit the respective platform or a website with integrated social media content (e.g. share/ like buttons or banners).

TWAICE and Element Materials Technology Partner to Advance Battery Development in the U.S. Through Performance and Aging Insights Chicago, US - TWAICE, the leading provider of battery analytics software, and Element Materials Technology ("Element"), a global leader in testing, inspection, and certification services, today announced a strategic ...

It provides access to numerous high-fidelity battery cell models of the latest batteries on the market. These models simulate the electrical, thermal, and aging behavior for any given load profile, i.e., usage. The simulation models are easily ...

TWAICE battery models use a coupled electric-thermal-aging model to ensure that the battery cell's behavior is considered in the most holistic way possible. It can be considered a combination of an ECM (equivalent-circuit-model) and a ...

Access the analytics platform through a variety of data integration services that meet all the requirements of BMS, EMS, SCADA, and system data. Pertinent data is collected from Batteries in automobiles and Battery Energy Storage Systems (BESS) and ...

LEADING BATTERY ANALYTICS Proven technology with leading customers. Scalable Software including best in class Modelling BATTERY LABS Advanced testing facilities with 200+ high precision channels and 10 climate chambers for cell and module testing ANALYTICS EXPERTISE 6+ years of research and development 50+ battery & software engineers and data ...

TWAICE's core technology is the digital twin - software that combines deep battery knowledge and artificial intelligence to determine the condition and predict battery aging and performance. ...

Make impactful, data-driven decisions using reliable insights from the leading AI-supported battery analytics platform. Speed up development by simulating battery behavior quickly; Eliminate risks with in-depth health, safety & warranty data; Improve profitability, operations & lifetime

Die TWAICE Batterie Analytik Plattform ist eine Konvergenz von fundiertem Batteriewissen, künstlicher Intelligenz (KI), skalierbarer Cloud-Software und realen Batteriedaten. Sie schafft eine



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einzigste Quelle der Wahrheit darüber, wie Batterien effektiv entwickelt und betrieben werden sollten - einfach, kostengünstig und hochwertig.

Lithium batteries have definitely changed the game for the energy transition, but require smart technologies and strategies to optimise them -- which can be equally important -- writes Sebastian Becker of TWAICE, a predictive analytics software provider.

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TWAICE's innovative battery analytics software uses an intelligent "digital twin": a virtual simulation of the real battery. By using live field data in combination with physical and data-driven battery models, TWAICE ...

TWAICE's core technology is the digital twin - software that combines deep battery knowledge and artificial intelligence to determine the condition and predict battery aging and performance. This makes complex battery systems more transparent, effective, and reliable.

TWAICE is the leading provider of battery analytics software, helping companies to de-risk their batteries and outperform competitors. TWAICE Energy Solutions reduce the risks of operating battery energy storage systems by constantly monitoring the health, safety, and warranty status while enabling a longer lifetime, better ...

„Durch die Optimierung unserer Betriebsstrategie mit der TWAICE Battery Analytics Plattform erwarten wir eine um 2 Jahre längere Lebensdauer unserer Energiespeicher.“ Karl Potz, Leiter des Battery Solutions Center bei VERBUND. Wir revolutionieren das Verständnis von Batterien für Unternehmen.

TWAICE's innovative battery analytics software uses an intelligent "digital twin": a virtual simulation of the real battery. By using live field data in combination with physical and data-driven battery models, TWAICE can accurately determine the condition of the real battery -- down to the cell level -- and predict performance going ...

Without access to reliable and precise information on battery health, these vital decisions are made based on guesswork or imprecise battery data. In this whitepaper, we discuss the core challenges caused by battery aging, how these affect aftersales departments across the industry, and how battery analytics can help OEMs overcome these challenges.

A New Generation of Aging Models for Lithium-Ion Batteries Introduction ? The ongoing global energy transition, driven by the dual imperatives of environmental sustainability and economic efficiency, has catalyzed the rise of two essential fields: electric vehicles (EVs) and energy storage systems (ESS). At the



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heart of these innovative technologies lies an essential ...

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