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Abstract

Battery Analytics for Optimized Operating Strategy Planning

Battery storage is a fundamental part of the energy sector. Batteries, however, are complex systems. Deriving the maximum profit from them without incurring any additional risk is the overarching goal of most energy operators. This is where battery analytics can help. A total of 25 GWh is already installed in battery storage globally. This amount is predicted to reach up to 900 GWh by 2030. Battery energy storage systems provide a near instantaneous power response making them suitable for fast response applications such as primary frequency regulation (PCR). Lithium-ion batteries are increasingly preferred thanks to the low cost per power and energy unit. These characteristics make them suitable for numerous

use cases, both front-of-the meter and behind-the-meter. In practice there are many considerations: beside the enduringly high purchasing cost of batteries, there is also their complexity and individual aging behavior. This presents three main issues: multi-use applications, warranty management and the oversizing of batteries. With battery analytics, these difficulties can all be addressed, making battery storage a very attractive technology.

Sebastian Becker

CV

Sebastian is Business Development Manager at TWAICE and responsible for the Energy industry.

Prior to joining TWAICE in early 2020, he gained experience as a Strategy Consultant and worked on both corporate value creation projects and M&A projects. After completing his Bachelor in business administration at the University of Mannheim, he did a CEMS Master in International Management at WU (Vienna University of Economics and Business) and FGV (São Paulo).

About TWAICE

TWAICE provides predictive analytics software that optimizes the development and operation of lithium-ion batteries. TWAICE's core technology is the digital twin - a software that combines deep battery knowledge and artificial intelligence to determine the condition and predict the aging and performance of batteries. This makes complex battery systems more transparent, effective and reliable. As the leading battery analytics software for global players in the mobility and energy sectors, TWAICE is committed to increasing the lifetime, efficiency and sustainability of the products that power the economy of tomorrow. Find out more at www.twaice.com