

eMonday eMove360° Club Meeting March 2021
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Rob Sides
Applications Architect



Rapid Determination of State-of-Health for Grading of Li-ion Batteries for Electric Vehicles

Year over year sales of BEVs are up and with regulatory pressure and restrictions on ICE-based vehicles continuing to climb, trends are indicative of ongoing growth in the adoption of these alternative powertrains. As the number of BEVs on the roads increases, factors such as warranty cost and recycling requirements become tangible, with manufacturers and reprocessing centers seeking solutions that enable further sophistication in the assessment of battery State of Health. In this presentation, we offer a case study that profiles the results of a consortium formed by Nissan, Warwick Manufacturing Group, AMETEK and Element Energy to establish a rapid grading methodology. Attendees will learn how the project was able to achieve its goal of 1MWh of second-life energy storage in approximately 6 weeks by the end of 2019 and how the rapid grading methodology delivers tangible value in an area where cost considerations are paramount.

Speaker/Presenter Biography

Rob Sides presents here as part of AMETEK, a global enterprise supporting electrochemical research through its Princeton Applied Research and Solartron Analytical brands. He joined AMETEK after achieving his Ph.D. from University of Florida in 2005, where he authored several original research papers, presentations, invited reviews and book chapters on the fabrication and characterization of Li-ion battery electrodes using DC and EIS-based methods.

At AMETEK Rob has held several roles across different functional groups of Applications, Sales/Marketing and Product Management. His background provides a depth and breadth of experience to present both fundamentals and solutions to the most challenging problems.