

# Next-Generation Battery Management Systems for Sustainable Electrification

December 12, 2025  
12:00 PM - 1:00 PM  
(UTC-6:00)



## Speaker

**Dr. Arman Oshnoei** is currently an Assistant Professor at the Department of Energy (AAU Energy), Aalborg University, Aalborg, Denmark. He was also a Visiting Researcher with the Center for Ageing, Reliability and Lifetime Prediction of Electrochemical and Power Electronic Systems (CARL) at RWTH Aachen University, Aachen, Germany. His research interests include energy storage systems for grid and e-mobility applications, battery management systems, and intelligent control strategies. Dr. Oshnoei currently serves as an Associate Editor for IEEE Access, Smart Grids and Sustainable Energy, and Circuit World journals, and is the Vice Leader of the EMI/EMC in Power Electronics research group at AAU Energy.

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## Event Outline

The global towards sustainable electrification, driven by electric mobility and renewables, is increasing demand for high-performance battery systems. Advanced Battery Management Systems (BMS), particularly cell and pack balancing, are critical for efficiency, safety, and longevity in lithium-ion and emerging battery chemistries. In this webinar, Dr. Oshnoei will discuss cutting-edge balancing methods, modular BMS architectures, and platforms that optimize cell health. Learn how intelligent balancing reduces degradation, enhances charge/discharge uniformity, boosts capacity, enables faster charging, and extends battery life, supporting a reliable and sustainable electrified future.

The event will be held **online**. Complete your **free registration**:



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