

Dr. Yusuf Bicer. Dr. Yusuf Bicer is an associate professor of the Division of Sustainable Development in the College of Science and Engineering at Hamad Bin Khalifa University in Doha, Qatar. His research area focuses on solar energy utilization in various processes such as effective cooling in greenhouses through innovative approaches, development of renewable-based ...

Modified direct torque control algorithm for regeneration capability of IM driven electric vehicle by using hybrid energy storage system. Renewable Energy Focus 2024 | Journal article ... Development in energy storage system for electric transportation: A comprehensive review ... Advances in Electrical Engineering, Electronics and Energy (2 ...

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Vehicle-for-grid (VfG) is introduced as a mobile energy storage system (ESS) in this study and its applications are investigated. Herein, VfG is referred to a specific electric vehicle merely utilised by the system operator to provide vehicle ...

Thermal Energy Storage (TES) systems are pivotal in advancing net-zero energy transitions, particularly in the energy sector, which is a major contributor to climate change due to carbon emissions. In electrical vehicles (EVs), TES systems enhance battery performance and regulate cabin temperatures, thus improving energy efficiency and extending vehicle ...

How EVs are impacting energy storage. An electric vehicle's battery capacity is much higher than that of a typical residential energy storage unit. Instead of spending extra money on an ESS, EV owners can simply use their vehicle batteries to store excess energy. ... it's an exciting time to be an engineer! To learn more, visit Avnet ...

He has published more than 20 refereed journal and conference papers in smart energy systems-related areas. His current research interests include control and optimization of smart energy networks, optimization of energy storage systems, DC microgrids, smart grids, and renewable energy resources. He is a member of PES.

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A hybrid energy storage system (HESS), which consists of a battery and a supercapacitor, presents good performances on both the power density and the energy density when applying to electric vehicles. In this research, an HESS is designed targeting at a commercialized EV model and a driving condition-adaptive rule-based energy management ...

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Dr. Yusuf Bicer is an Associate Professor in the Division of Sustainable Development with the College of Science and Engineering at Hamad Bin Khalifa University in Doha, Qatar. He received his PhD (2017) in the area of mechanical engineering at the Department of Mechanical and Manufacturing, Faculty of Engineering and Applied Sciences, Ontario Tech University, ...

A 30MW / 30MWh battery energy storage system at Ballarat substation in the Australian state of Victoria supplied by Fluence and commissioned in 2018. ... Meanwhile, Fluence's current joint owners, energy asset developer AES Corporation and engineering giant Siemens will maintain around 44% of the energy storage company's stock following the ...

The final major investment in Delta services and capabilities took place in 2011, and incorporated a basic restructuring exercise. Responding to the growing demand for highly specialised engineering and maintenance support, Delta's internal service and engineering capabilities were brought together in a single specialised subsidiary named Dserv.

The increase of vehicles on roads has caused two major problems, namely, traffic jams and carbon dioxide (CO₂) emissions. Generally, a conventional vehicle dissipates heat during consumption of approximately 85% of total fuel energy [2], [3] in terms of CO₂, carbon monoxide, nitrogen oxide, hydrocarbon, water, and other greenhouse gases (GHGs); 83.7% of ...

Tesla is an American electric vehicle and clean energy company. The company specializes in electric vehicle manufacturing, battery energy storage from home to grid scale and, through its acquisition of SolarCity, solar panel and solar roof tile manufacturing. The companys name is a tribute to the Serbian inventor and electrical engineer Nikola ...

Energy storage system battery technologies can be classified based on their energy capacity, charge and discharge (round trip) performance, life cycle, and environmental friendliness (Table 35.1). The sum of energy that can be contained in a single device per unit volume or weight is known as energy density.

Promotes eco-friendly and green energy consumption; Offers integration with energy storage, EV-charging infrastructure, and end-to-end solutions tailored for specific needs. Eliminates upfront CAPEX cost through an

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The global electric car fleet exceeded 7 million battery electric vehicles and plug-in hybrid electric vehicles in 2019, and will continue to increase in the future, as electrification is an important means of decreasing the greenhouse gas emissions of the transportation sector. The energy storage system is a very central component of the electric vehicle. The storage system needs ...

Future energy systems will be determined by the increasing relevance of solar and wind energy. Crude oil and gas prices are expected to increase in the long run, and penalties for CO2 emissions will become a relevant economic factor. Solar- and wind-powered electricity will become significantly cheaper, such that hydrogen produced from electrolysis will be ...

To meet the world's growing energy needs, photovoltaic (PV) and electric vehicle (EV) systems are gaining popularity. However, intermittent PV power supply, changing consumer load needs, and EV storage limits exacerbate network instability. A model predictive intelligent energy management system (MP-iEMS) integrated home area power network ...

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