

In the propulsion systems of electric aircraft, the energy density, defined in watt-hours per kilogram, has a direct impact on determining the range and payload capacity of ...

This paper focuses on the design stage of an electrical energy storage system which is intended to be used to level the power required by ships for propulsion when sailing in ...

The present work is a survey on aircraft hybrid electric propulsion (HEP) that aims to present state-of-the-art technologies and future tendencies in the following areas: air ...

As a special mobile microgrid, an all-electric ship (AES) utilizes diesel generators and energy storage systems to provide electric propulsion and service loads. Unlike previous ...

Energy Storage System (HESS) is introduced to the existing on-board electric propulsion system, it interacts with the generator control systems. Without proper coordina ...

In publication titles, the words/phrases "shipboard", "energy storage", "all-electric ship" are commonly used, ... (ECMS) is applied in the [86] study to a ship with a hybrid ...

Hybrid-Electric Propulsion Systems Murat Ayar, Selcuk Ekici, and T. Hikmet Karakoc . 1 Introduction . Air transportation is more and more in our lives today. The increase in the risk of ...

The key difference between the A320neo reference aircraft and the derived all-electric aircraft is the energy storage and propulsion system. Our all-electric aircraft capital ...

culating current between BESUs. The all-electric propulsion ships are mainly composed of equipment, such as battery energy storage system (BESS), voltage converters and ...

The shipping industry is going through a period of technology transition that aims to increase the use of carbon-neutral fuels. There is a significant trend of vessels being ordered with alternative fuel propulsion. ...

Energy storage system based on lithium-ion battery banks with a possibility of expanding the capacity is also described in this work as it is the core part of the proposed solution. ... Menis, R. All-Electric Ship Design: From ...

Energies 2023, 16, 1122 4 of 25 On modern diesel electric vessels with dynamic positioning systems, all the above three systems can be integrated into a sophisticated predictive energy ...



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Producing zero emissions in operation, Artemis eFoiler's vessels are designed to better protect our environment. The revolutionary system design of the Artemis eFoiler's includes a high ...



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