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经**教育部科技查新工作站（G03）**华北电力大学图书馆信息部检索，证明下面1篇文章被美国社会科学会议论文引文索引（CPCI-SSH）数据库收录，特此证明。

标题: Optimal Active Power Management in All Electric Ship Employing DC Grid Technology

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摘要: Extensive electrification and the use of dc distribution grid are recently proved to be very promising technologies for the development of more efficient and environmentally friendly ships. Onboard dc grids present several advantages such as, improved efficiency, easy integration of different types of power sources, reduced size and rating of switchboard, elimination of reactive power flow, increased reconfiguration capability etc. All electric ship (AES) concept, dc distribution grid and optimal power management can lead to a substantial improvement of ship efficiency and compliance with the environmental constraints. In this paper, a method for optimal demand side management and power generation scheduling is proposed for AES employing dc grid. Demand side management is based on the adjustment of the power consumed by ship electric propulsion motors. Dynamic programming algorithm subject to operation, environmental and travel constraints is used to solve the above problem.

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