

Assurance of hybrid and integrated on-board power systems

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The increasing price of fossil fuels and the more stringent emission Standard and Regulations combined with the technological advances in energy storage systems have triggered the integration of consolidated power generation and propulsion systems in hybrid solutions across a widening variety of marine applications. In this paper the author provides an overall view of the state of the art and offer the Lloyd's Register view of these technologies and systems integration. The paper is focused on the issue encountered in provision of the required level of industry assurance in terms of system and component safety.

