Special Issue

Green Energy Transition in the Ports - Promoting Electrification

Message from the Guest Editors

Sustainable decarbonization in maritime transport has introduced, among other innovative ideas, shore side electricity or “onshore power supply”, i.e., the electrical interconnection between the shore grid and the ship. Electrification of both ships and ports seems to be the most readily available technology for implementation. The foundation of this sustainable green energy measure is the fact that electricity in the inland grid is generated via more environmentally friendly methods compared to those onboard ships, namely renewable energy sources. The electrification introduces new “greening” challenges to face for all parties involved, namely the main electric grid, the port hosting and serving ships, and of course the ships themselves. This Special Issue has been planned to address all these three links of the electrified maritime transport chain. Thus, the range of papers will cover cases of ship electric propulsion, the upgrade of port distribution network infrastructure, leading to their transformation into energy hubs, as well the development of the market for maritime electric energy.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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