

## Special Issue

# Sustainable Development and Energy Management of Hybrid Power Systems in Maritime Transport

### Message from the Guest Editors

The issue emphasizes the advancement and application of hybrid propulsion technologies, including gas-electric hybrid systems, methanol-fueled hybrids, energy storage-driven hybrid architectures, and multi-energy hybrid configurations.

Research topics of interest include, but are not limited to:

- Integration strategies for low- and zero-carbon fuels (e.g., hydrogen, ammonia, methanol) in marine propulsion.
- System architecture design and energy flow optimization for hybrid vessels.
- Applications of energy storage technologies (e.g., batteries, supercapacitors) in maritime energy systems.
- Development of intelligent energy management and ship energy efficiency control systems.
- Utilization of renewable energy sources (e.g., solar, wind) in hybrid propulsion configurations.
- Implementation of digital twin technologies, artificial intelligence, and big data analytics for operational optimization.
- Life cycle assessment, carbon footprint analysis, and techno-economic evaluations of hybrid marine systems.

### Guest Editors

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