

# INNOVATIVE MARINE SOLUTIONS

## TECO-Westinghouse Products for the Marine Industry

- Super Quiet Hybrid DC/AC Propulsion Motor Set (Total of 1832 kW)
- DC & AC Power for Optimized High Speed and Low Speed Operation
- Cost Effective Energy Savings
- Low Maintenance and High Efficiency
- Meets Environmental Demands
- Compliant with ICES209



The *Ocean Researcher V*, a state-of-the-art 2700T research vessel, was built by Jong Shyn Shipyard in Taiwan for the Taiwan Ocean Research Institute. The first of its kind, this vessel has a unique propulsion system which includes tandem TECO-Westinghouse DC/AC motors powered by Siemens Blue Drives. The hybrid DC/AC propulsion set operates on DC power in Super Quiet mode and with a combination of DC & AC power for normal operation, making it ideal for advanced Ocean Research Vessels.

***For unique Super Quiet or traditional electric propulsion needs, TECO-Westinghouse is on the forefront of technology with innovative solutions.***

## Typical Products for a Marine Vessel

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### Integrated Electric Propulsion Systems



### General Low Voltage Motors and Drives for Pumps, Fans, and Winches



### AC and DC Propulsion



### AC Induction Thrusters: Vertical and Horizontal



### AC Ship Generators



## Main Advantages for Using TWMC Marine Products

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- Lloyds, BV, DNV, and ABS Certification Capabilities
- Offers World Wide Service Capabilities
- Engineered Re-Designs or Upgrades of Existing Naval/ Military, or Commercial Rotating Machines
- Experience Working with Vessel Owners, Operators, Naval Architects and Shipyards
- AC & DC Machines that are Compatible with All Quality Power Electronic Products and Drives

**TECO**   **Westinghouse**

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