Eco Marine Power Co. Ltd. (EMP) is an internationally focused technology company based in Fukuoka, Japan, that develops innovative fuel and emissions reduction technologies for shipping. These technologies include the Aquarius MRE System, EnergySail and Aquarius MAS (Management and Automation System).

In addition, EMP works with a number of strategic partners to offer a range of products and technologies including marine hybrid power, computer control systems, marine solar power and energy storage solutions. These technologies are suitable for a wide range of ships and can be retrofitted to existing vessels.

Along with KEI System Ltd., EMP also established the Aquarius Innovation Lab in Osaka, Japan, in 2013. The Aquarius Innovation Lab is unique in that it develops and tests a wide range of equipment in a multi-vendor environment thus providing solutions suited to ships ranging from small passenger ferries and tugboats to bulk ore carriers, oil tankers and cruise ships.

Eco Marine Power is recognised globally as a pioneer in the development of renewable energy systems for shipping and is committed to developing solutions that will benefit shipping companies, ship owners and the environment!

Company Information

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Aquarius MRE System, Aquarius MAS & EnergySail are trademarks of Eco Marine Power Co. Ltd.
EnergySail
A rigid sail technology developed by EMP that can also be fitted with solar panels or other devices. Each EnergySail is controlled by a computer system and they can be rotated, raised, lowered and stored as required. A range of safety features ensures the EnergySail can be used with confidence.

Flexible Solar Panels
Each EnergySail can be fitted with marine grade lightweight solar panels. These panels are also flexible and able to withstand the harsh conditions onboard ships.

Energy Storage Modules and BMS
Lithium-ion batteries store the power collected by the solar panels and are connected to a Battery Management System (BMS) to ensure safe and optimal operation.

EnergySail ACS
The EnergySail Automated Control System (ACS) controls the position of each EnergySail. This system enables each EnergySail to be positioned automatically depending on weather conditions and the ship’s speed.

Aquarius IMS
The Aquarius Integrated Management System (IMS) allows for various systems and equipment on the ship to be monitored & managed from a central location.

Aquarius MAS
The Aquarius Management & Automation System (MAS) is a flexible performance management, data logging and alarm monitoring platform for ships. It can also monitor the performance of renewable energy systems, fuel consumption and vessel emissions.

Aquarius Eco Ship
The Aquarius Eco Ship is our vision of how various technologies developed by our company or strategic partners could be used on modern ships so that they could utilize renewable energy to reduce fuel consumption and emissions.

EnergySail ACS, Aquarius IMS and Aquarius MAS jointly developed with KEI System Ltd.