

# Robust automation, control and management system for marine renewable energy solutions



The Aquarius MAS will be incorporated into the Aquarius Eco Ship concept being developed by EMP as well as into the designs of the Tonbo hybrid ferry and Medaka Eco commuter ferry

**AQUARIUS MAS** | The Japanese companies Eco Marine Power (EMP) and KEI System Ltd have announced the release of the Aquarius monitoring and automation

system (MAS) – a marine computer system to monitor and control equipment such as wind and solar power devices as well as fuel consumption.

The Aquarius MAS is based on the KEI 3240 data logger platform, a marine computer system that is already in use on vessels such as tugboats, training ships and bulk ore carriers. The KEI 3240 data logger is able to monitor the performance of onboard systems and record data for later analysis. It can also be configured to control equipment and automate processes to turn on/off equipment.

One of the new features of the Aquarius MAS is the ability to monitor the amount of energy by marine solar and/or

wind power systems against fuel consumption to verify savings. This information can also be recorded and later analysed along with a wide range of other performance data in order to fine-tune the operational performance of the vessel.

The combination of marine renewable energy solutions in addition to the optimisation of energy use will result in considerable fuel savings, lower noxious gas emissions and a reduced carbon footprint for ships, EMP and KEI noted.

It is planned to install the first Aquarius MAS in cooperation with AIMS Global Engineering, Malaysia, after which the system will be marketed globally.