

# Press Release

## New Marine Scrubber Technology – A better business case for meeting global IMO fuel sulfur limits and reducing PM<sub>2.5</sub>

American Canyon California:



### John Tate, President of EnviroCare International, announces a game changer for ship owners and operators.

2017 is a turning point in the marine scrubber business. EnviroCare International (ECI) and its marine-industry collaboration partners have been developing a better technical solution for marine scrubbers. We were asked by ship owners to develop a new technology scrubber that would lower overall costs by avoiding the need to burn expensive, ultra low sulfur distillate fuels, while also providing a *future-proof technology* that will address upcoming regulations.

Based on ship owner feedback, we developed **MicroMist Marine**, a new family of technologically advanced ship scrubber systems. We offer scalable scrubber solutions that are designed for each vessel class, while maintaining the same underlying scrubber technology pioneered by ECI over the last 36 years. ECI are the scrubber experts. We pride ourselves on meeting and exceeding market requirements.

Applying a customized approach to configuring the MicroMist Marine scrubbers, we create economical designs that address all required maritime environmental regulations. While current regulations mainly focus on NO<sub>x</sub> and SO<sub>2</sub>, MicroMist Marine scrubbers can also address particulate matter, sulfate, and visible plumes. Our scrubbers are compatible with all current shipboard systems, and include built-in automation for plug and play operational monitoring.

EnviroCare has recently completed testing of the MicroMist Marine scrubber on a diesel engine using high-sulfur distillate fuel to demonstrate SO<sub>2</sub> compliance and significant particulate reduction. This includes industry-leading reduction of sulfur, sulfate particulate, and PM<sub>2.5</sub>. The EnviroCare MicroMist Marine scrubber results show that:

- Total sulfur emissions, including both SO<sub>2</sub> and sulfate particulate, on engines burning high-sulfur fuels are easily reduced to emission levels below uncontrolled engines burning either 0.1% or 0.5% sulfur fuel
- PM<sub>2.5</sub> emissions on engines burning high-sulfur fuels can be reduced to levels below uncontrolled engines burning either 0.1% or 0.5% sulfur fuel

## **About EnviroCare International:**

EnviroCare International was founded in 1980 as a broad-based supplier of engineered systems, engineering services, and aftermarket service for air and water pollution control, gas conditioning, and gas cooling applications. EnviroCare has developed effective and unique solutions for industrial gas conditioning applications and air pollution control equipment optimization. These include unique wet scrubber systems (**MicroMist Scrubber** and **VenturiPak Scrubber**), a novel **wet ESP** (Star WESP), an SO<sub>2</sub> abatement system (**MicroMist SO<sub>2</sub> and Plume Abatement**) and a variety of custom engineered systems and parts for industrial gas cleaning and gas conditioning applications. EnviroCare also supplies custom wastewater separation and concentration equipment. Our company currently holds 16 patents.

For more information please call EnviroCare International at 707.638.6800, email us at [info@envirocare.com](mailto:info@envirocare.com), or visit our website at [www.micromistmarine.com](http://www.micromistmarine.com).