

## CMA CGM SELECTS BIO-SEA BWMS FOR 17 CONTAINERSHIPS

CMA CGM, one of the world's largest container carriers with a fleet of 454 vessels, has contracted France-based BIO-UV Group to supply its BIO-SEA ballast water treatment systems to 17 containerships.

Nine LNG-fuelled 22,000TEU leviathans currently under construction at China's CSTC Shipyard will each be fitted-out with two 3000m<sup>3</sup>/h capacity BIO-SEA B 10-1500 FX units, while eight 9000TEU capacity Opera-class vessels will be retrofitted with a BIO-SEA B 10-1000 FX unit capable of treating ballast water flow rates of 1000m<sup>3</sup>. This marks **their** first BWMS retrofit contract for an entire ship class.

Benoit Gillmann, President and CEO, BIO-UV **Group**, said: "Beyond the dynamics of this milestone agreement, the order from CMA CGM, the world's third largest container shipping company, indicates the industry's commitment to reducing the impact that the transfer of non-indigenous species has on the marine environment, and beyond. The order strengthens BIO-UV's position in the maritime segment and BIO-SEA's leading position in the ballast water market."

The order, which is valued more than €5 million, is the company's first BIO-SEA order following the system's USCG type-approval, awarded on the 21 June 2018.

Xavier Deval, Business Director, BIO-SEA, said: "We are excited to be working with CMA CGM on these newbuild and retrofit projects, which represent the first orders since **our** USCG-approval. The order substantiates our view that BIO-SEA is one of the best ultraviolet treatment systems available. It is suitable for all waters of the world in which these CMA CGM vessels will operate and is one of the very few ballast water treatment systems that is currently compliant with both USCG and IMO requirements."

The UV-type ballast water treatment system is available as a skid mounted, semi-modular or modular system capable of dealing with flow rates between 10 and 2000m<sup>3</sup>/h. To date, it is the only UV system on the market with no limit for freshwater retention, 24 hours in marine water, and **72H** days for brackish water.

BIO-SEA is two stage treatment process, with ballast waters entering a 20µm filter to flush out any suspended solids and zooplankton. The filtered water then enters a titanium reactor to be put through the ultraviolet disinfection process. The system is also equipped with an automated operating, monitoring and alarm with power regulation.

**Pictures/Captions**



Left: Benoit Gillmann, President and CEO, BIO UV



Right: Xavier Deval, Business Director, BIO-SEA

A skid-mounted BIO-SEA ballast water treatment plant



High resolution photographs can be downloaded from [www.seabornecomms.com](http://www.seabornecomms.com)

**About BIO-UV Group**

For almost 20 years, BIO-UV Group has been designing, manufacturing and marketing ultraviolet light (UV-C) water treatment technologies for a multitude of industrial applications. In 2011, it added the treatment of ship ballast water to its range. The company's product range is designed and produced at its own purpose-built facility in Lunel, France, allowing the company to quickly respond to its customers' specific requirements.

The public-listed company since June 2017, has a consolidated turnover of €10.2 million and a workforce of 61 employees. More than 50% of the group's sales are made in export markets.

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