



PRESS RELEASE

18 SEPTEMBER 2018

BIO-SEA INSTALLATION A SUCCESS ABOARD CMA CGM FLAGSHIP

BIO-UV Group has successfully installed and commissioned its BIO-SEA ballast water treatment system to CMA CGM's new flagship, the 400m long, 20,600TEU CMA CGM *Antoine De Saint Exupéry*.

The vessel, one of the largest containerships to be built by Hanjin Heavy Industries' yard in the Philippines, and the largest to fly the French flag, was christened in Le Havre earlier this month by the Minister of Economy and Finance, Bruno Le Maire, and the Minister in charge of Transport, Elisabeth Borne.

BIO-UV Group will also supply BIO-Sea Units to nine 22,000TEU CMA CGM vessels under construction in China, following the signing of a supply order earlier this year.

Benoit Gillmann, President and CEO, BIO-UV Group, said: "The successful installation and commissioning of the 2000m³/h capacity BIO-SEA unit to this new flagship, together with newbuild and retrofit installations planned in coming months, puts CMA CGM very much ahead in the game.

"We anticipate a significant spike in ballast water retrofits over the next two to three years. Taking newbuilds and retrofits into account, the market is worth more than €7.5 billion and if BIO-SEA can account for just 5% of this over the next six years or so, then we would be very happy, indeed."

Xavier Deval, Business Director, BIO-SEA, said: "We anticipate the market beginning to take shape in 2019, but the big boom is likely to be in the 2020-2021 period. It will inevitably be a last-minute rush, so owners really do need to plan ahead to account for any increase in lead times. Depending on the size of the system, we can supply BIO-SEA units within 8 to 12 weeks."

The short lead time is because each BIO-SEA unit is designed and manufactured completely in-house, at the company's production plant in Lunel, France.

The BIO-Sea system incorporates two technologies in a single, fully automated skid-mounted or modular unit. The system first cleans ballast water using a screen filter, in order to reduce the amount of total suspended particles present in the seawater.

The second technology – BIO-UV Group's patented UV-based disinfection technology – treats the water and eliminates all microorganisms without the addition of chemicals

or active substances. The water passes through a reactor where UV rays destroy the microorganisms' DNA.

Since one 22kW UV lamp can treat flow rates of 150m³/h, overall system footprint is minimal compared to other UV-based technologies.

Commenting on the market acceptance of the BIO-SEA system, Mr Gillmann said: "As a result of the recently announced supply order from CMA CGM, we have noticed considerable interest in the technology. During the SMM exhibition, in Hamburg Germany, we met with over 100 shipowners, engineering advisory firms, shipyards and agents, all of whom were interested in the dual IMO/USCG certification we received in June. Only two other companies in the world currently have this dual certification for UV systems."

Pictures/Captions



Left: CMA CGM
*Antoine De Saint
Exupéry* arriving in Le
Havre



Above right: Benoit Gillmann, President and CEO,
BIO-UV Group explaining the workings of a BIO-SEA
Control System

A BIO-SEA Modular arrangement



High resolution photographs can be downloaded from
www.seabornecomms.com



PRESS RELEASE

18 SEPTEMBER 2018

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.

For further information, please contact:



Xavier Deval
Business Director
Ballast Water Treatment Solution
Mobile: + 33(0)6 31 69 69 79
Office: + 33(0)4 99 13 39 11



Coralie Mazauric
Marketing & Communication Manager
BIO UV Group
Email: cmazauric@bio-uv.com
Tel.: +33 (0)4 99 13 77 84



SEABORNE COMMUNICATIONS

Patrik Wheeler
PR Director
Seaborne Communications
Email: pr@seabornecomms.com
Tel: +44 (0) 208 339 6149