

For Immediate Release

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Green shipping: Ecospray launches a new particulate removal solution for the marine market

Ecospray expands its range of innovative products with WESP, a preparatory technology for carbon capture solutions combined with EGCS and diesel engines.

WESP (Wet Electrostatic Precipitator) which was developed in recent months by Italian company Ecospray, is ready for its first installation on a cruise ship. Subsequently, thorough testing will be run in collaboration with important third-party bodies, such as RINA and SGS, in order to validate and assess the results.

Ecospray was founded as an engineering company 15 years ago, since then it has worked to make industrial processes more sustainable through cleaning and treatment of polluting emission. It has always been prominent in the maritime market for creating ECGS (Exhaust Gas Cleaning Systems), and is known as one of the leading companies in the sector. However, in the last year, it has undertaken a phase of evolution, which has developed its positioning and consolidated it as a multi-product company, committed to building technologies to support the energy transition.

Ecospray's innovative drive and continuous investment in R&D build a strong foundation for their solutions, as they are developed using strong technological and green components in order to create clean energy for a zero-emission planet.

Particularly within the marine sector, these new technologies were created with the goal of enabling ships to raise their standards for sustainable navigation with low environmental impact, regardless of any enforced regulations.

With this philosophy in mind, Ecospray is now preparing to launch their latest innovation: WESP (Wet Electrostatic Precipitator), which is a newly developed system in the marine sector for the elimination of particulate matter and black smoke.

The WESP system was developed to eliminate visible smoke from the stack, especially during engine start-up and at low loads, by capturing particles (PM2.5 and below) and part of condensable species (SO₃). It can be installed downstream of the DeSOx tower and has low pressure drops and high removal efficiency. WESP can be integrated into an existing DeSOx tower or installed as a stand-alone unit, for both Open Loop and Hybrid EGCS.

Roadmap

All required laboratory testing has been successfully completed in recent months at the Ecospray Labs. The project will be developed in collaboration with RINA, who will support Ecospray in the assessment of the technology and run various tests.





SGS will also assist Ecospray with the laboratory analyses to test system performance in full scale.

Andrea Cogliolo, *Senior Director Marine RINA*, said: "RINA's role in this project begins with the verification and validation of the installation drawings onboard the ship, continues by establishing a test protocol which is to be performed with the support of a third-party company equipped for measurements, and ends with the issuance of a report on the results achieved. The collaboration with Ecospray is part of RINA's strategy, which looks at the energy transition as an area in which to make an important contribution. In the coming years, the shipping industry will be driven by decarbonization and RINA is playing an active role in this transformation, making its multidisciplinary skills available to the sector to build an increasingly sustainable future."

Vladimiro Bonamin, *Director of SGS I&E Marine Services Geneva CH*, said: "For this project, SGS Marine Services has been tasked with establishing the details for the analytical side of the test protocol prepared by RINA, and above all, preparing the QAQC protocol in order to guarantee top quality measurements. This collaboration with Ecospray is part of SGS's wider strategy - as the only global player operating in the field of environmental measurements on large transport and cruise ships, we also want to be leaders for complex measurements in technological and scientific content."

Filippo Lossani - *Ecospray*: "Like the EGCS plants for diesel engines, WESP is a 'bridge' technology, meaning it's a true transition technology which will guide us towards the 2030-2050 objectives. We are very satisfied with WESP, as it is a new product for the maritime industry, and is ready to be installed. Considering the ever-increasing focus on issues involving environmental sustainability and health - and given the growing demand for the reduction of polluting emissions - we expect that the standardization process of dust and particulates will be the necessary next step; and we are ready."

About Ecospray

From research to development, Ecospray Technologies is a company specialized in integrated solutions for sustainability within the maritime and land-based industries, as well as the reduction of dependence on fossil fuels. Founded in 2005, owned by Costa Crociere and part of the Carnival Group since 2013, Ecospray operates globally offering systems that make industrial processes more sustainable through the cleaning and treatment of polluting factors: from the removal of emissions and fuel saving, to water filtration. Ecospray's technology solutions leverage three distinctive factors: technology provided as-a-service, analysis and use of relevant data and finance, facilitating access to innovation and contributing significantly to the energy transition towards decarbonization and the creation of clean energy.

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