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Cummins combats marine pollution with SCR technology

Cummins is mapping out effective solutions to the challenges of Marpol (maritime pollution), and is assisting customers in navigating current and future regulations. Cummins has responded to the industry's demand for regulatory compliance with an investment in technology, crucially containing measures to control NO_x emissions from its diesel engines.

"We have chosen Selective Catalytic Reduction (SCR) technology as one of the most cost-effective and fuel-efficient technologies available to help reduce NO_x emissions," said Cummins Arabia Upstream and Design Manager, Engineering **Magdolin Mikhail** at a marine technical seminar held on 14 March in Dubai in the United Arab Emirates (UAE).

Cummins' leading aftertreatment technologies are designed around proven core technologies. With a decade of experience with oxidation catalysts, particulate filters and SCR technology, its aftertreatment systems optimise the entire engine system to operate more efficiently.

An SCR system consists of three main elements: an SCR catalyst, a urea dosing system, and the aftertreatment control system. The Cummins' system uses a chemical reductant, in this case urea, known as Diesel Exhaust Fluid (DEF) in North American, or AdBlue in Europe. DEF or AdBlue converts to ammonia in the exhaust stream, and reacts with NO_x over a catalyst to form harmless nitrogen gas and water.

Entitled the 'Evolution of Emission Regulations and New Technologies to Support the Marine Industry', the technical seminar was attended by 108 ship owners/managers, executives from shipyards, engineering firms, oil and gas exploration and services companies, suppliers/service companies, marine consultants, independent surveyors, classification societies managers, inspectors from regional flag administrations, and port officials from the Middle East.

Mustafa Aydin, Segment Manager for the Marine & Oil Gas segment, and EBU Application Engineers **Abdul Rahman** and **Soumya Bhattacharjee** answered delegates' questions. "Environmental responsibility is a priority for Cummins, and we strive to actively reduce our carbon footprint. It is through technical meetings like these that gives Cummins an opportunity to exchange ideas and best practices with our customers," Mikhail concluded.

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Cummins Inc., a global technology leader, is a corporation of complementary business segments that designs, manufactures, distributes and services a broad portfolio of power solutions. The company's products range from diesel and natural gas engines to hybrid and electric platforms, as well as related technologies, including transmissions, battery systems, fuel systems, controls, air handling, filtration, emission solutions, and power generation systems. Headquartered in Columbus, Indiana (U.S.), since its founding in 1919, Cummins employs approximately 62,600 people committed to powering a more prosperous world through three global corporate responsibility priorities critical to healthy communities: education, environment and equality of opportunity. Cummins serves customers in approximately 190 countries and territories through a network of approximately 600 company-owned and independent distributor locations, and over 7,600 dealer locations. In 2018, the company earned about \$2.1 billion on sales of \$23.8 billion. See how Cummins is powering a world that's Always On by accessing news releases and more information at <https://www.cummins.com/always-on>. Follow Cummins on Twitter at www.twitter.com/cummins and on YouTube at www.youtube.com/cumminsinc.

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