

Port & Shipping Tech

*1st October 2020 / Naples Shipping week*

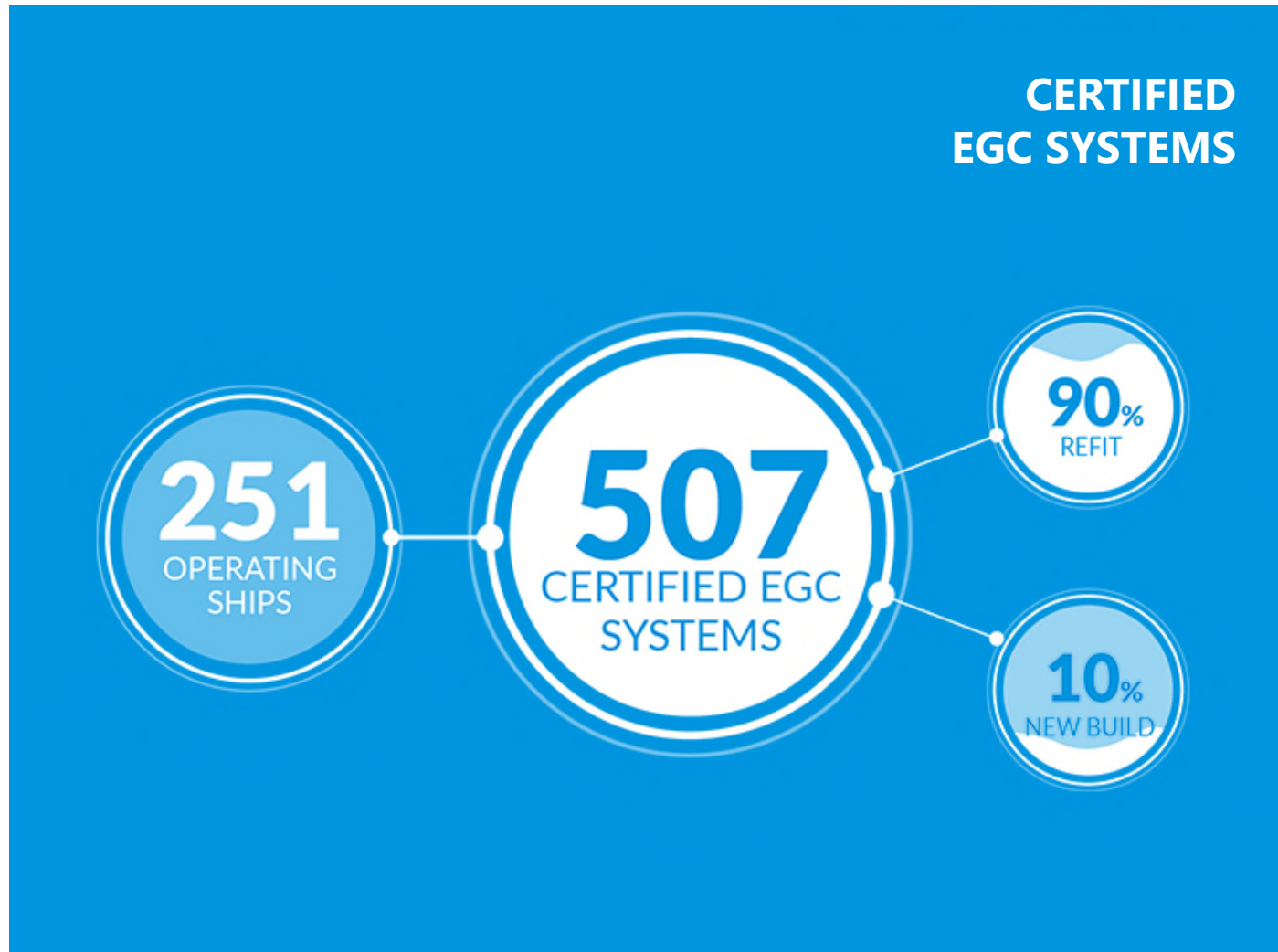
# New Marine Technologies

Alberto DI CECIO

Director - Marine Department

# THE ECOSPRAY EXPERIENCE

MARINE FACTS & FIGURES (AUGUST 2020)

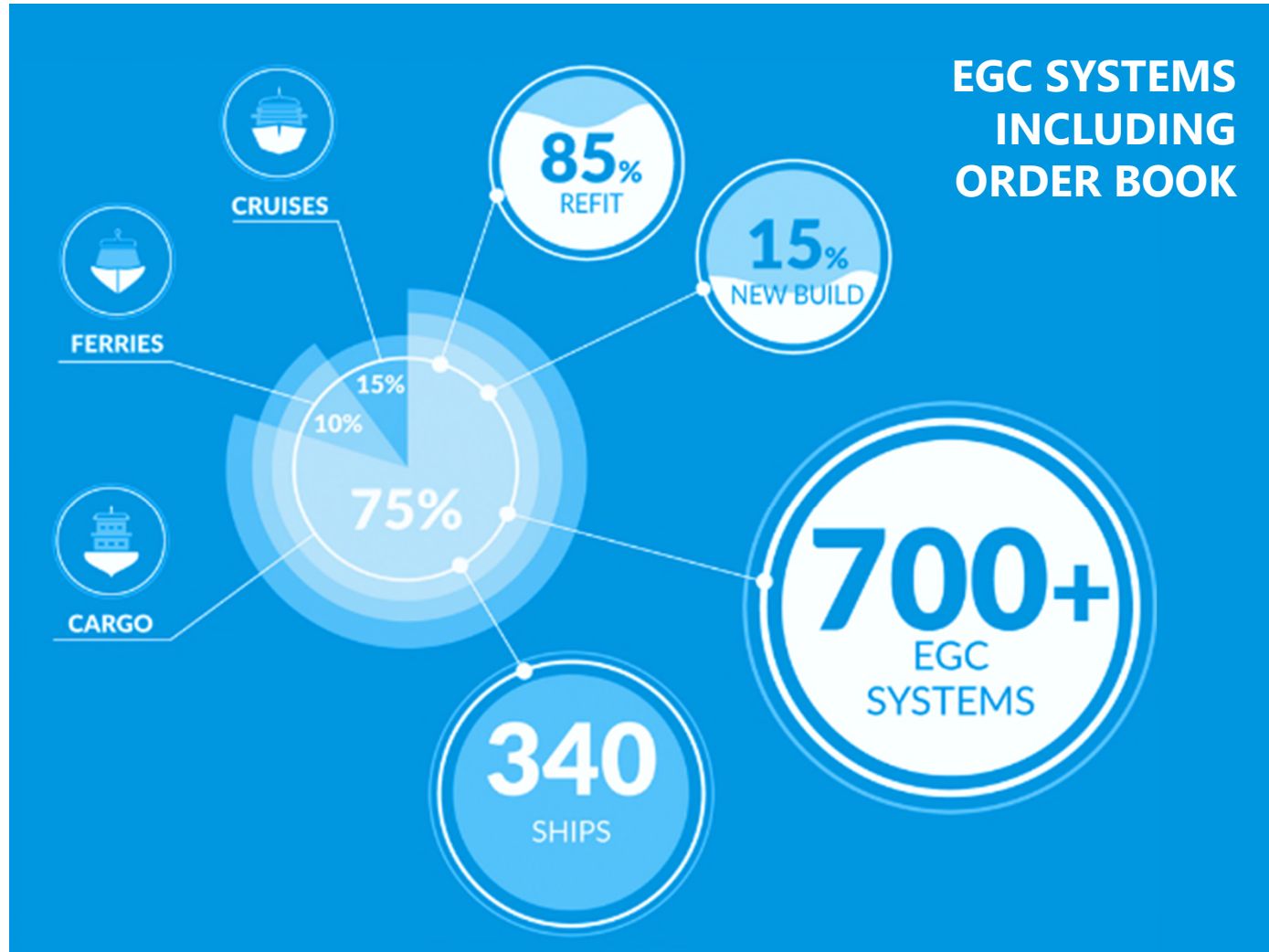


Since 2008, Ecospray has developed one of the **largest portfolio of EGCS** in the industry, with **hundreds of thousands** of hours of operation.

Our installed base represents one of the company's most valuable assets.

# THE ECOSPRAY EXPERIENCE

MARINE FACTS & FIGURES (AUGUST 2020)



In addition to the cruise market, in the last 3 years, the **commercial vessels sector** has been growing constantly.

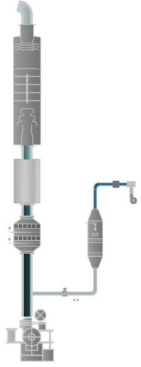
Our portfolio per sector:

- Ro-Ro e Ro-Pax
- Bulk carriers
- Tankers
- Containerships
- Multipurpose vessels
- Heavy Lift

# OUR CLIENTS

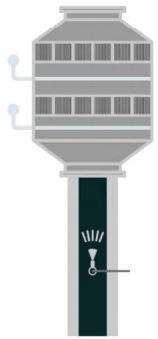


# MARINE SOLUTIONS



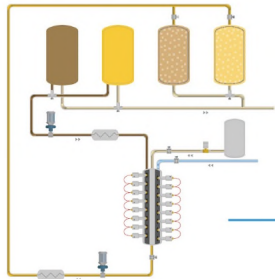
## SCR DeNOx SYSTEM

Main engine HFO/MGO fueled NOx abatement



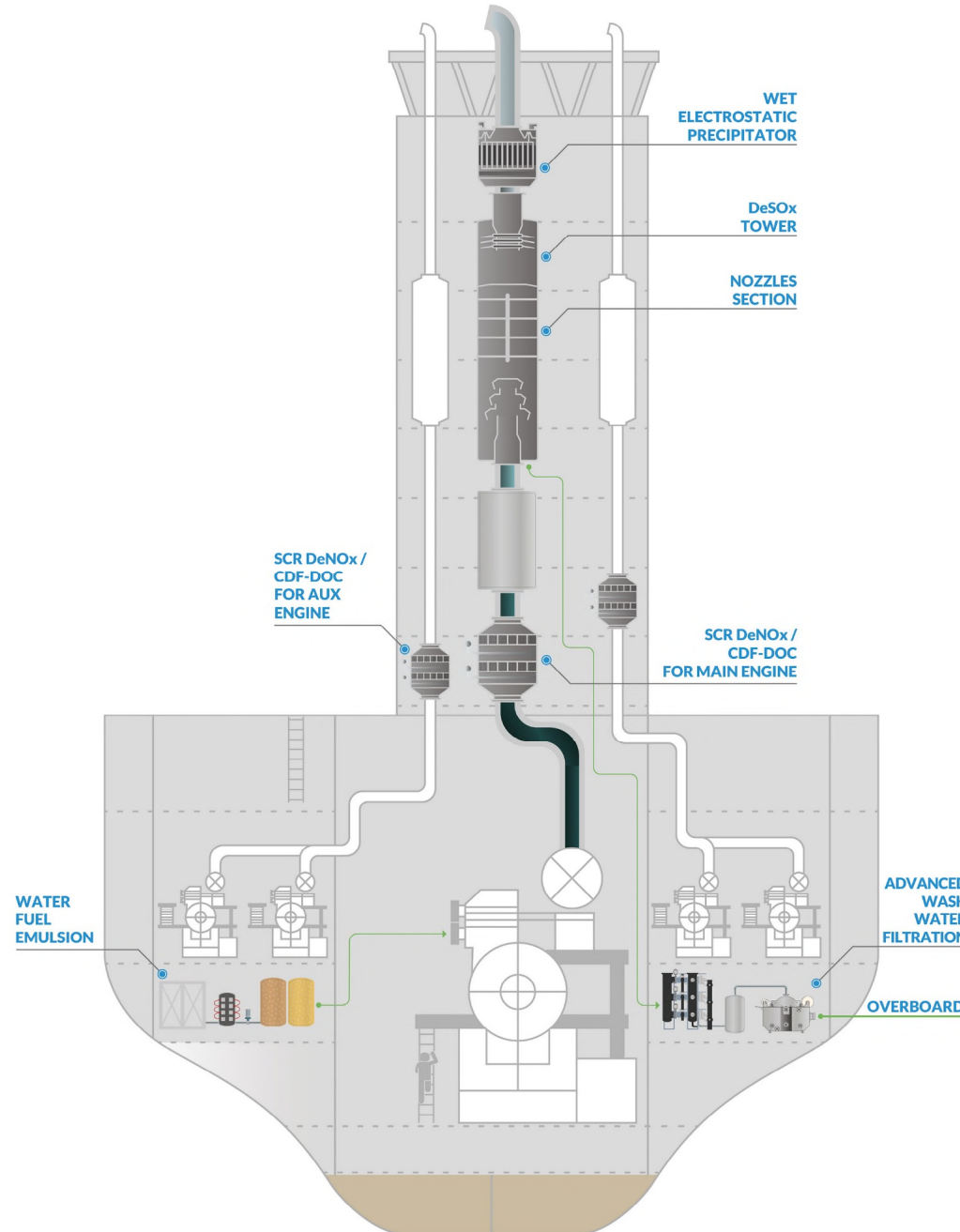
## SCR DeNOx SYSTEM

Auxiliary engine NOx abatement



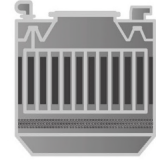
## WATER FUEL EMULSION

NOx, PM and fuel consumption reduction



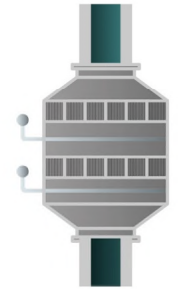
## WET ELECTROSTATIC PRECIPITATOR

Black smoke, plume and PM abatement



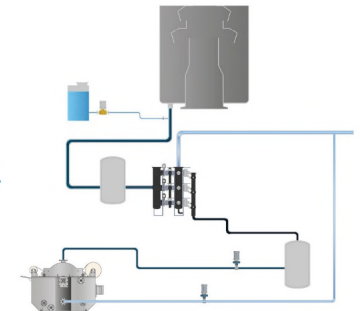
## CATALYTIC DRY FILTER / DIESEL OXIDATIVE CATALYST

Soot, ash and particulate matter, heavy metals, aromatic hydrocarbons (HC, CH<sub>2</sub>O, VOC) including PAH, and carbon monoxide (CO) removal



## ADVANCED WASH WATER FILTRATION

Soot and pollutants abatement in Open Loop design EGCS

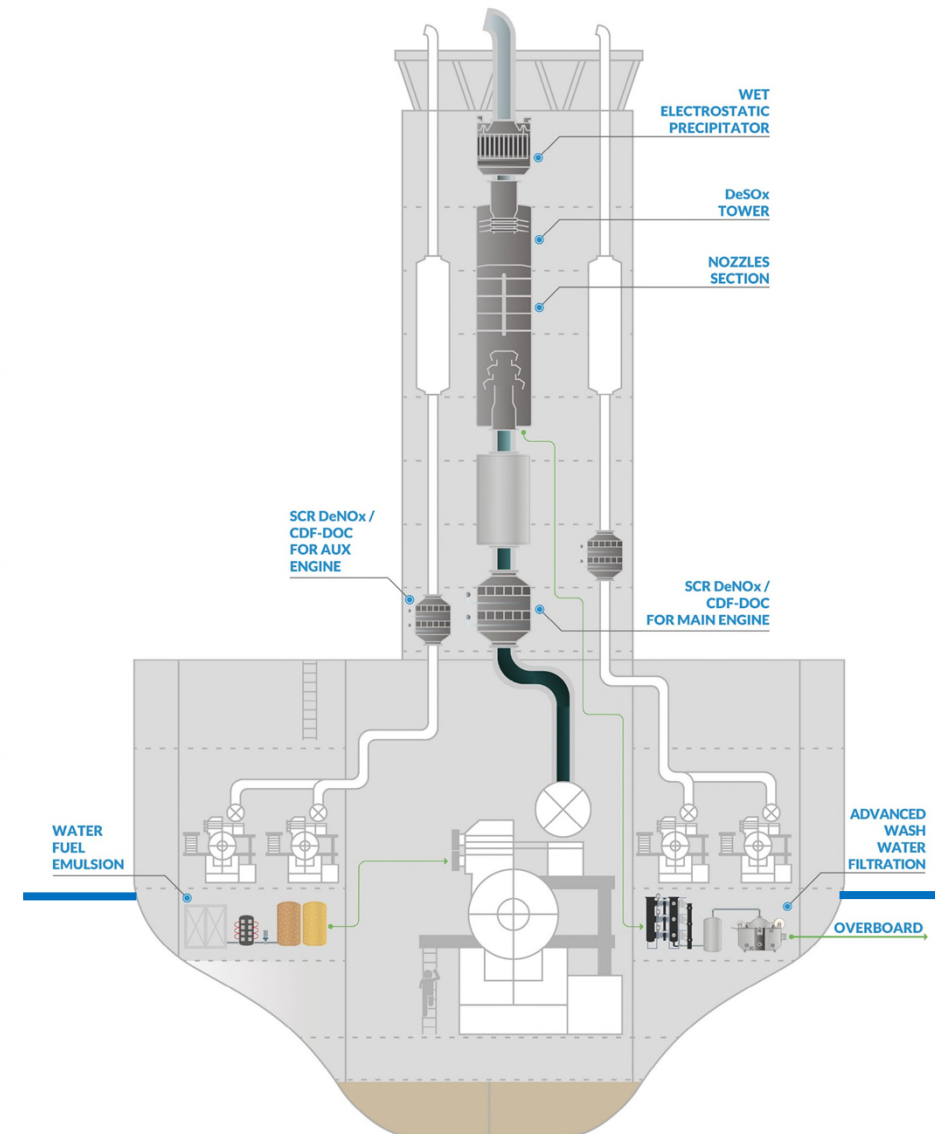


# A COMPLETE SOLUTION FOR GREEN SHIPS

Integrated solutions for **SOx, NOx** and **PM removal**, specifically designed for the marine industry to comply with global requirements for both **air emission** and **wash water**.

**Advanced air quality systems**, time-tested and with **proven performance**, for any kind of vessel, both for retrofit and new building.

- Open Loop & Hybrid design EGCS (scrubber) for Sulfur abatement
- **Advanced Wash Water Filtration** for soot and pollutants abatement in Open Loop design EGCS
- **Wet Electrostatic Precipitator** for black smoke, plume and PM abatement
- **SCR systems** for NOx abatement
- **Water Fuel Emulsion** for NOx, PM and fuel consumption reduction





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