STRINGENT REGULATIONS TO COPE WITH CO2 ISSUE

SHIPPING AS THE MOST EFFICIENT FREIGHT INDUSTRY, YET POLLUTING

- **90% of world trade** is carried by the international shipping industry
- Shipping is responsible for **11%** of the world **transportation CO2 emission** today
- **World trade** is expected to **double** by 2050
- Shipping is to account for **17% of world total CO2 emission** in 2050 without action

REGULATIONS WILL BE ENFORCED BY IMO

INTERNATIONAL MARITIME ORGANIZATION

- 2020 – Sulphur Cap down from 3.5% to 0.5%
  → Maritime fuel price to double
- 2030 – 40% CO2 reduction requirement*
- 2050 – 70% CO2 reduction requirement*

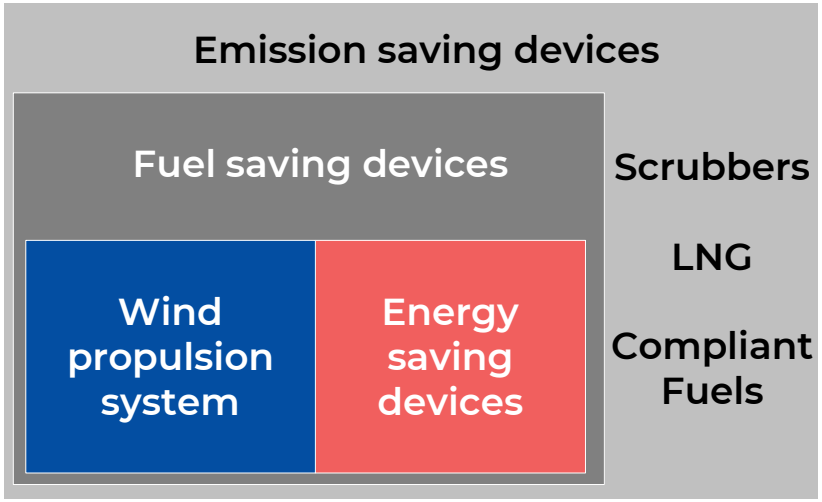
European parliament agrees CO2 emissions target for shipping
7 July 2020

"Our goal is to start reducing CO2 emissions by 2030, and achieve carbon neutrality by 2060," said Chinese President Xi Jinping. 22 Septembre 2020

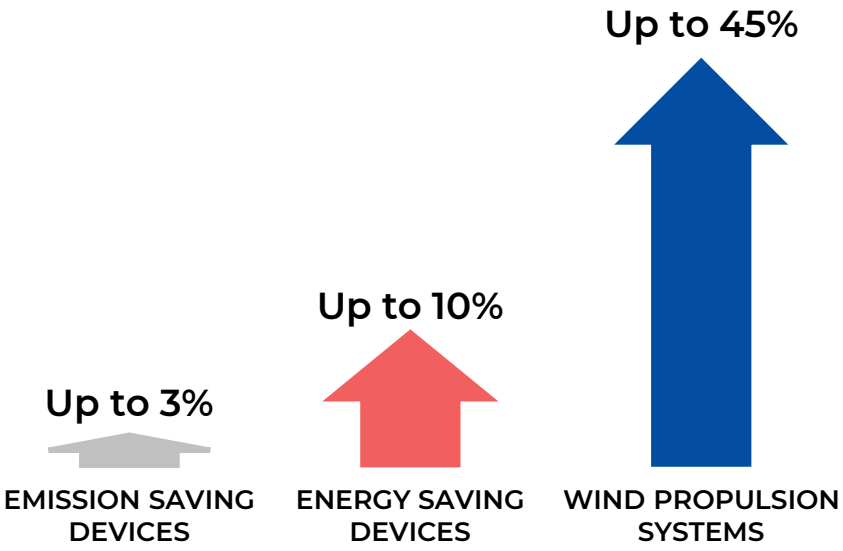
* Per unit and compared to 2008 level

WIND PROPULSION
NECESSARY PART OF THE ANSWER

LEVERS TO REDUCE EMISSION



PERCENTAGE OF EMISSION SAVINGS



The use of wind propulsion technology onboard a product tanker vessel could take us to a new playing field, CTO, Maersk Tankers.

Wind Propulsion is part of our Roadmap, CMA CGM

Wind-assist propulsion is one of the few technologies potentially offering double digit fuel savings today, Lloyd's Register

WHY IS WIND PROPULSION BACK IN SHIPPING ?

Simulation Technologies allow for holistic approach and precise evaluation at design stages

Control Technologies allow for optimized and safe system behavior

Manufacturing Technologies allow for realistic design-to-cost approach

THE MOST ADVANCED WIND PROPULSION SYSTEM FOR MARITIME SHIPPING

FROM CUTTING-EDGE SAILING TECHNOLOGY
TO A COMPETITIVE INDUSTRIAL ANSWER
FOR THE INTERNATIONAL SHIPPING INDUSTRY

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