

# SMM Pre-press conference

Hamburg, 26 May 2010

**Lars Gorvell-Dahll**

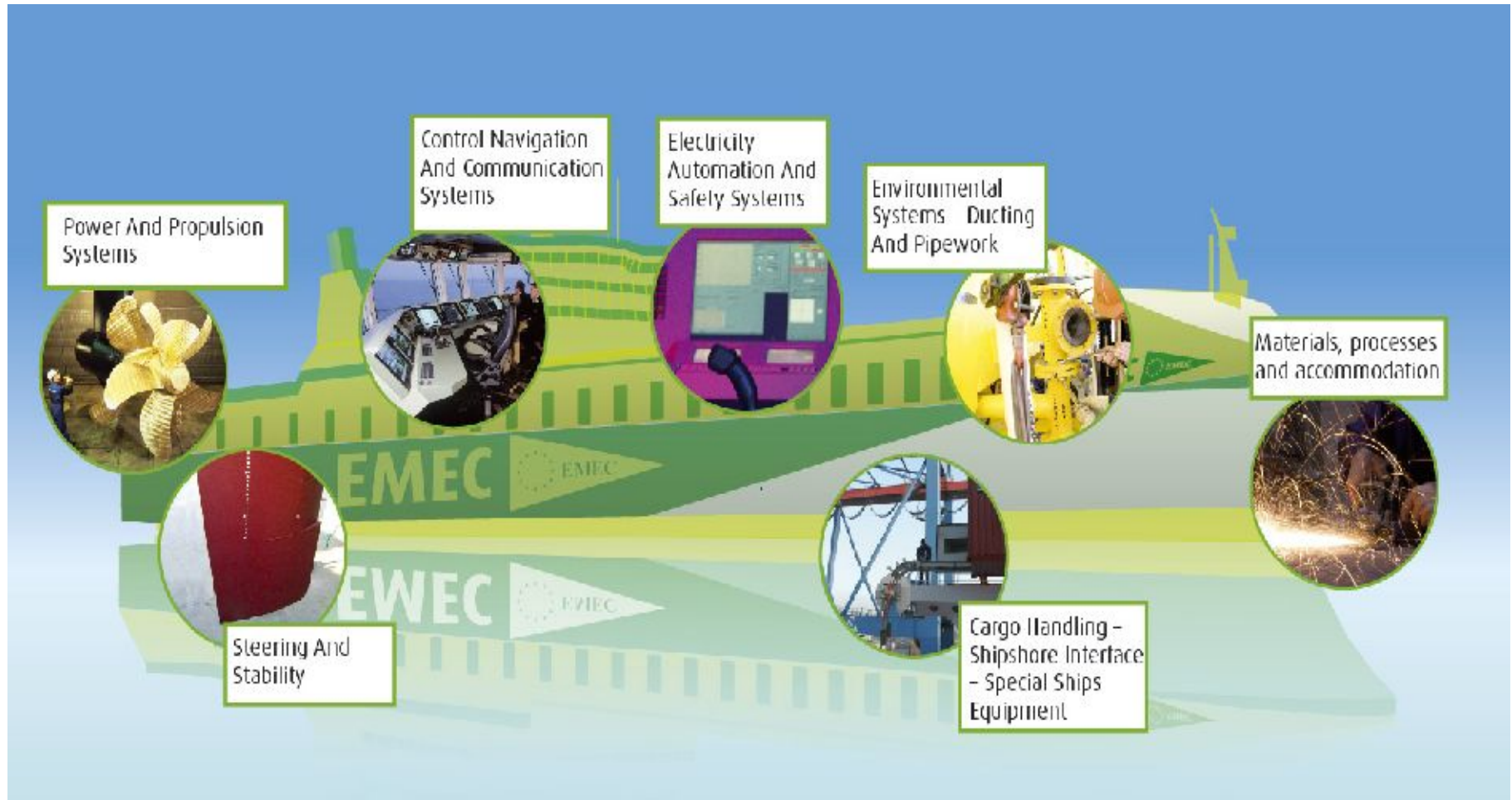
**Vice-chairman of the European Marine Equipment Council (EMEC)**

**and**

**Sr Vice President - Corporate Business Development**

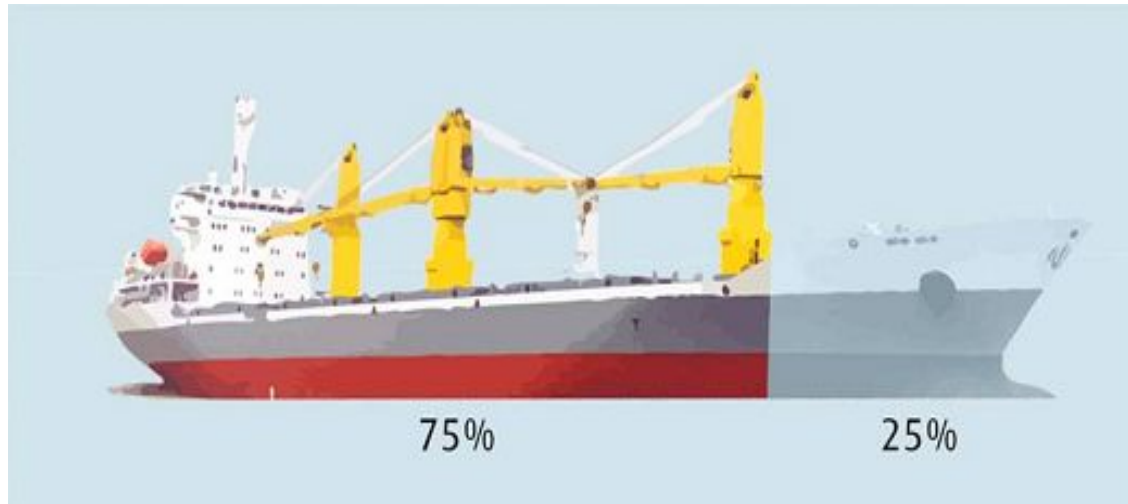
**Kongsberg Group ASA**

# Range of Marine Equipment

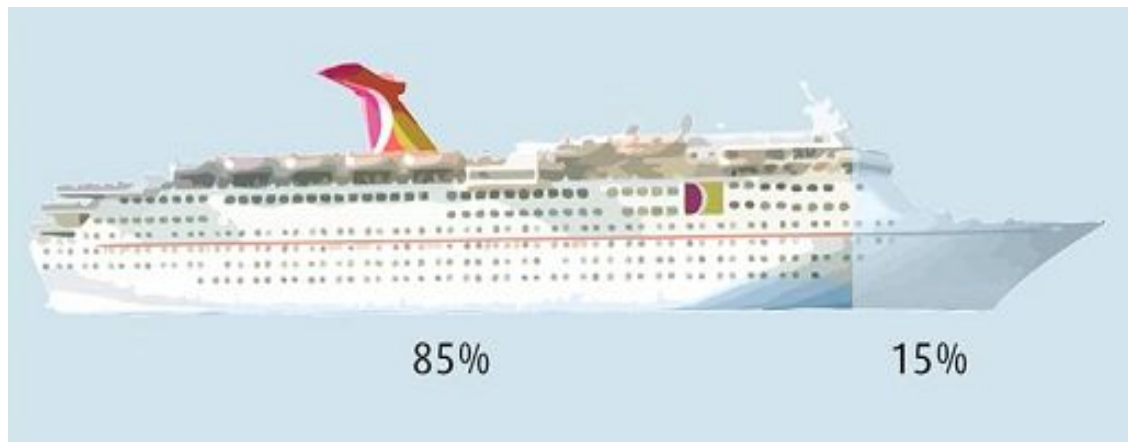


# Ship Value

European Marine Equipment Council



*For standard to medium complexity ship designs up to 75% of value is contributed by the Marine Equipment Industry*



*For special and complex ship designs such as Cruise ships up to 85% of value is due to Marine Equipment Industry input*

**Shipbuilding = Marine Equipment + Shipyards**

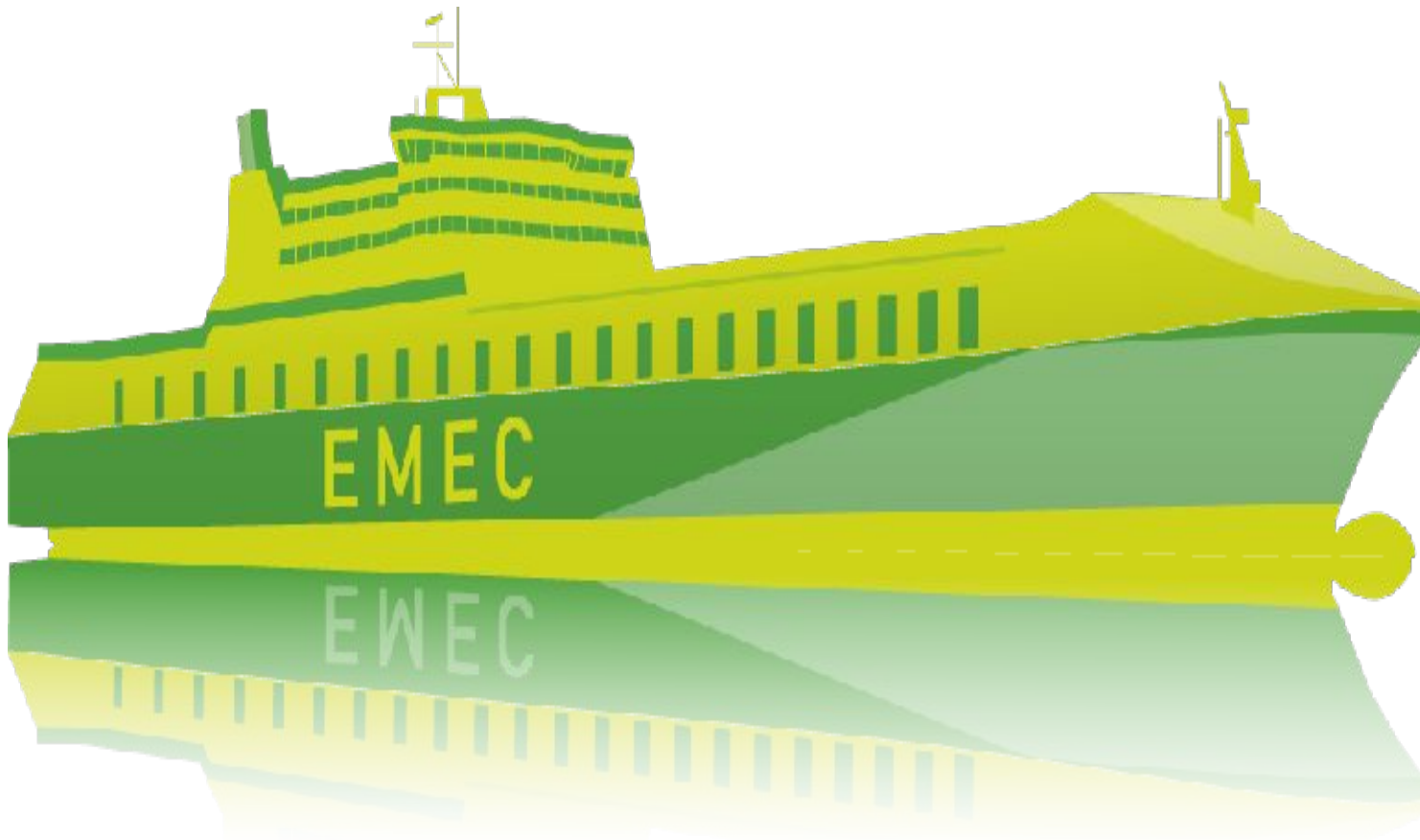
**No**

**Quality SHIPPING**

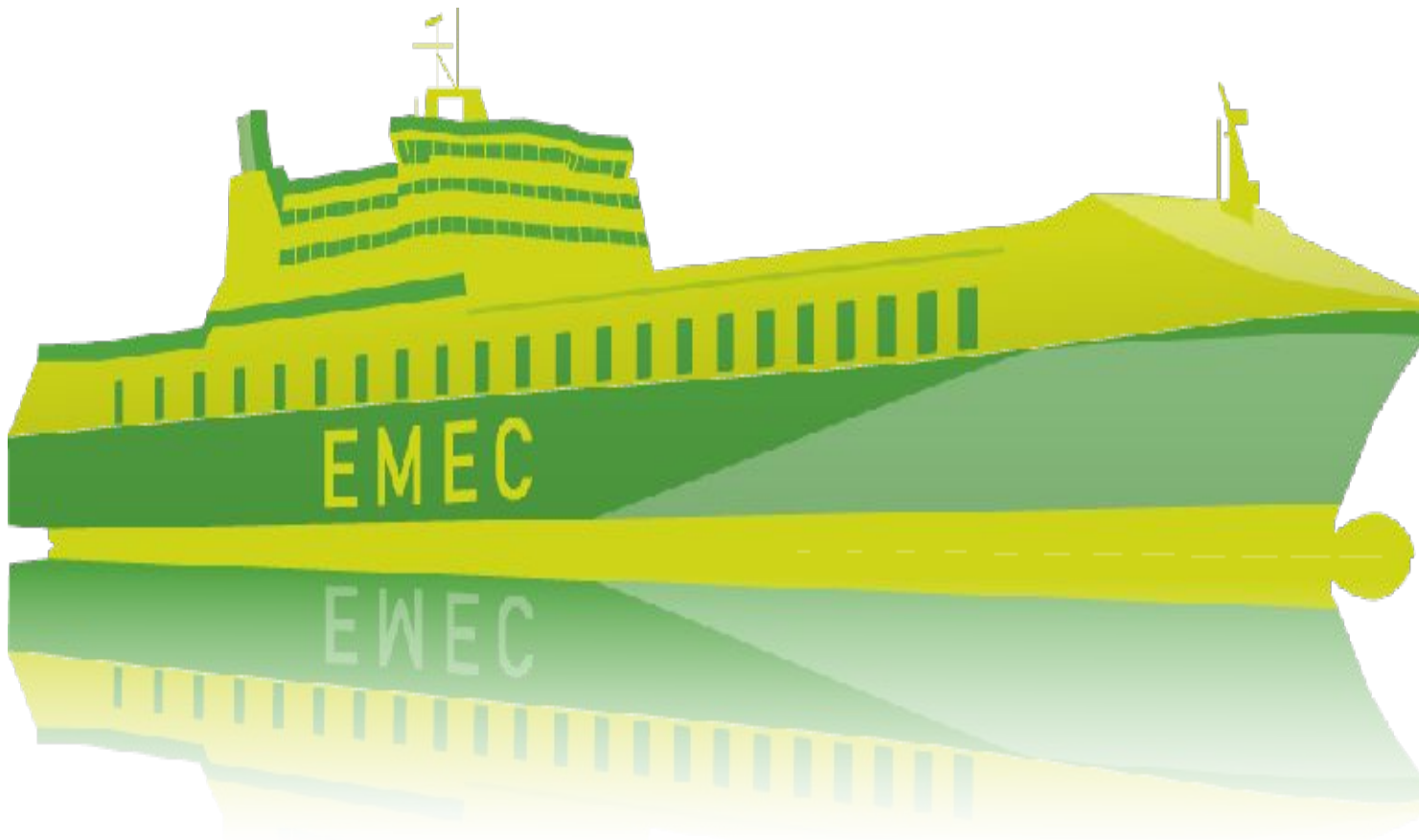
**without**

**Quality SHIPBUILDING**

# *What can ME\* contribute?*

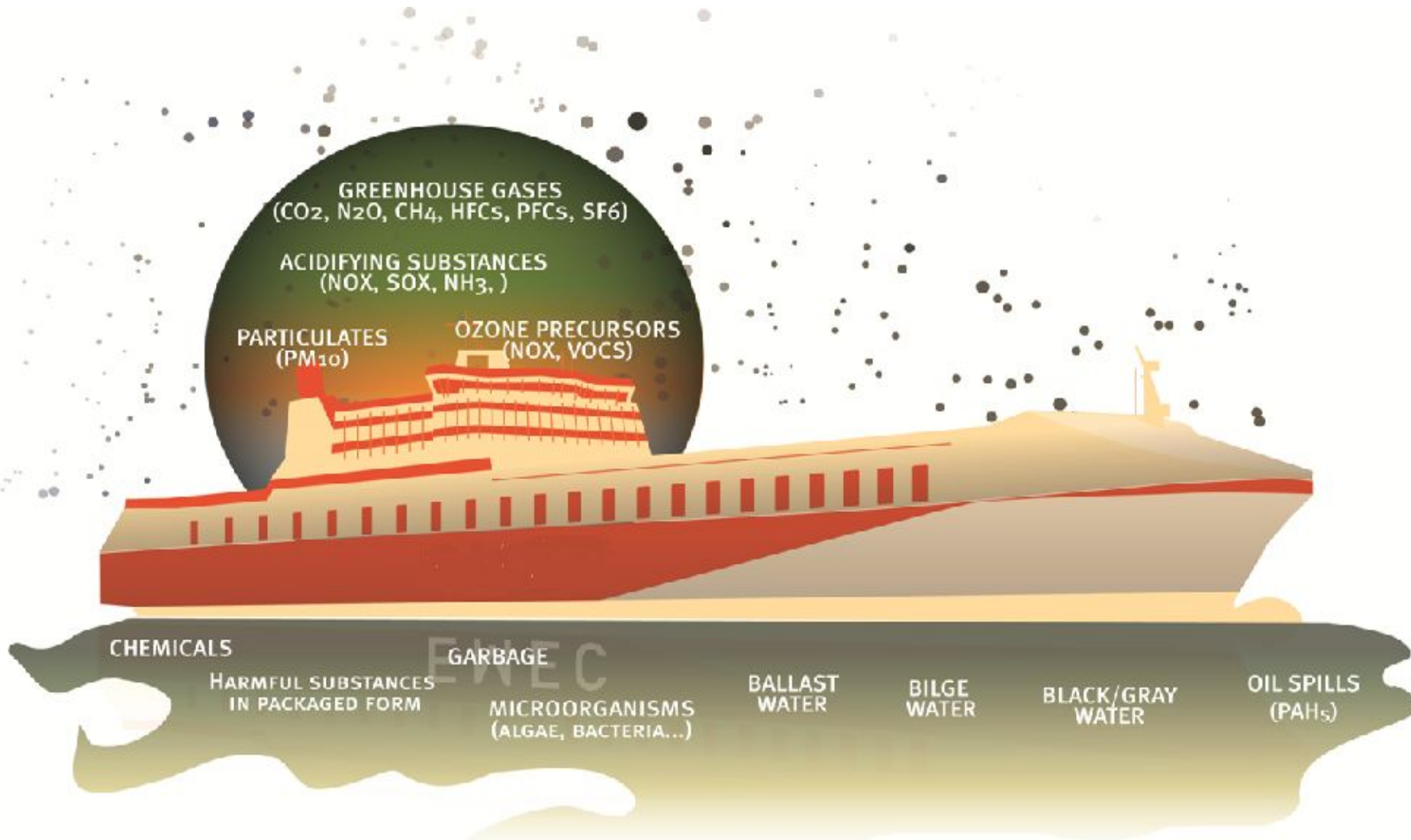


# How can ME\* contribute?



# Emissions

European Marine Equipment Council



# Emission reduction table

Category	Measure	CO <sub>2</sub> reduction (not additional)
<b>Hull design</b>	Reduction water resistance	5-20%
	Reduction wind resistance	5-10%
	Stern flaps	p.m.
	Bow fins	1-3%
<b>Propulsion</b>	Improve engine efficiency	p.m.
	Improved gas turbine	4-6%
	All electric ship	20-30%
<b>Other energy use</b>	Boilers	15-19%
	Shore Electricity	p.m.
<b>Maintenance</b>	Optimal hull maintenance	p.m.
	Optimal propeller maintenance	3-5%
<b>Hull modifications</b>	Stern flaps	1-3%
	Bow fins	p.m.
<b>Alternative fuels</b>	HFO to MDO shift	4-5%
<b>Improvements in logistics</b>	Fleet planning	4-50%
	Speed reduction	0-50%
	Minimal ballast	0-1%
	Optimal stability	0-1%
<b>Optimising operational technology</b>	Optimal rudder	0-0,3%
	Optimal propeller pitch	0-2%
	Optimal power	0 – 65%
	Optimal fuel use	0-10%
	Optimal cargo handling	1-5%
	Optimal berthing, mooring and anchoring	1-2%

# What can we expect at SMM?

Green theme:  
business opportunities and showcasing of  
equipment

## Green Ship Technology Book

EXISTING TECHNOLOGY BY THE MARINE EQUIPMENT INDUSTRY:  
A CONTRIBUTION TO THE REDUCTION  
OF THE ENVIRONMENTAL IMPACT OF SHIPPING

[www.emec.eu/green](http://www.emec.eu/green)



*me\**

Marine Equipment by EMEC

1<sup>ST</sup> EDITION - DECEMBER 2009

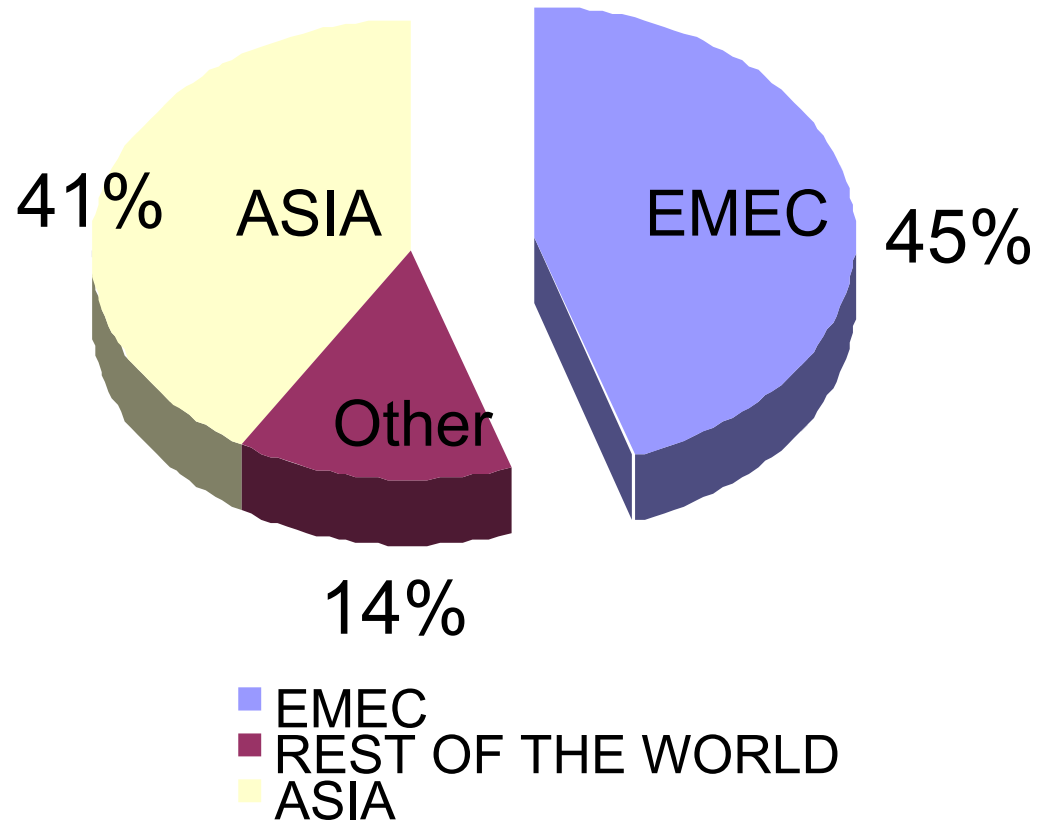
*The EU Marine Equipment industry is a valued contributor and innovator within the maritime cluster and leader in*

- *Propulsion technologies*
- *Cargo handling*
- *Communication*
- *Automation*
- *Environmental systems*

*Companies are internationally operating; Europe remains the brains and knowledge powerhouse*



# Regional segmentation 2008



# Thank you for your attention!

